

## Section 6

### Area, Geography, and Climate

This section relates to area, climatologic, topographic, and hydrologic measurements of the United States. There are few official publications other than those showing area measurements (issued infrequently by the Bureau of the Census), which present area and geography statistics of national scope. However, many data are compiled for particular regions or for internal administrative purposes by such Federal agencies as the Geological Survey and the Environmental Science Services Administration.

**Area.**—Area measurements in the United States began with the country as a whole and developed, as mapping progressed, to measurements for the States. The annual report of the U.S. General Land Office for 1850 contained the first reference to the areas of the States and Territories, although there was no indication of the method used in obtaining the measurements. Until 1881, the General Land Office was practically the sole source of information on areas of the States and Territories.

In 1881, as part of the 1880 Census of Population, the Bureau of the Census laid the foundation for accurate and detailed area measurement in the United States. For the first time an account was given of the method and maps employed, the water bodies included, and the outer limits of the United States used as a basis for measurement. As part of the 1940 census, the Bureau published *Areas of the United States: 1940*, presenting data on the total land and water areas of the States, counties, cities, and minor civil divisions. For reports of the 1950 and 1960 censuses, adjustments in selected area figures were made for three principal reasons: Changes in boundaries, the development of water reservoirs, or improvement in maps from which area measurements are made. In 1964, the Bureau undertook measurement of the areas of cities, minor civil divisions, and census county divisions of the 1960 census. The results are published in *Area Measurement Reports, Series GE-20*, the series consisting of one report for each State and a United States summary. These reports include the same kinds of data as the 1940 report plus statistics on the population (total and per square mile) for each area.

**Geography.**—The Geological Survey, cooperating with State and local agencies, is responsible for topographic, geologic, and hydrologic maps; basic data on the quantity, quality, and movement of surface and ground water; and classification of Federal lands for mineral and water-power potential.

The Bureau of Land Management conducts surveys and maintains records of the public domain and other public lands.

The Coast and Geodetic Survey, a component of the Environmental Science Services Administration, was authorized in 1807 and is responsible for coastal and geodetic surveys and measurement of certain physical phenomena. Its original function was to survey and chart the coast of the United States and the outlying islands and fishing banks. Currently, its primary functions are to provide charts for marine and air navigation, a basic network of geodetic control, and other basic data for engineering, scientific, commercial, industrial, and defense needs.

A civil mapping activity of the Corps of Engineers, the U.S. Lake Survey, was established in 1841. Its primary function is to furnish Great Lakes navigators with reliable charts and information on harbor facilities. It also maintains records of the fluctuating levels of the Great Lakes, the precipitation over them, and the flow through connecting rivers, and issues reports on all hydraulic problems relating to the Great Lakes.

**Air pollution.**—The Public Health Service first established an air sampling network in 1953. The Federal Air Pollution Research and Technical Assistance Act (PL 159, 84th Congress), under the provisions of which the present National Air Sampling Network was created, became effective in 1955. The Network's objectives are to determine the extent and nature of air pollution, to study trends in levels of atmospheric contaminants, and to investigate relationships between air pollution and socio-economic, geographic, topographic, and other factors. Currently there are 250 sampling stations in the Network, 215 urban and 35 nonurban.

**Radioactivity in air.**—The Radiation Alert Network, a cooperative air sampling program consisting of 73 collection stations, is operated by the National Center for Radiological Health in conjunction with State health departments. Its primary objective is to alert Federal, State, and local health agencies to significant increases in atmospheric concentrations and depositions of radioactive materials.

**Climate.**—The Environmental Science Services Administration, through the Weather Bureau and the Environmental Data Service, is responsible for collecting, processing, and publishing data on climate. It maintains about 11,000 weather stations, of which nearly 3,000 produce autographic precipitation records, about 600 take automatic or hourly readings of a series of weather elements, and the remainder record one observation a day.

Nearly all weather stations have been moved several times in their history. Consequently, the Weather Bureau uses "normal" values of temperature and precipitation for comparative purposes rather than long-term means which are derived from records taken at the different locations the stations may have had over the years.

Normal values of temperature and precipitation are based on records for the 30-year period 1931 to 1960. For stations having records for the entire 30 years from the same instrument site, monthly precipitation and temperature normals are the means of the monthly values for the 30 years; for temperature, the normal maximum and normal minimum values were used to obtain monthly normals. The annual normal temperature is obtained by dividing by 2 the sum of the annual normal maximum value and the annual normal minimum value of temperature.

For stations that did not have continuous records from the same instrument site for the entire 30 years, 1931 to 1960, the means have been adjusted to the record at the present site. In these adjustments, a "difference factor" was used for temperature and a "ratio factor" for precipitation. These factors were determined by parallel comparison, either between records at the actual station sites or through a second station that had a continuous record to compare against both sites for obtaining the resultant adjustment factors. Normals were thereafter obtained as outlined above.

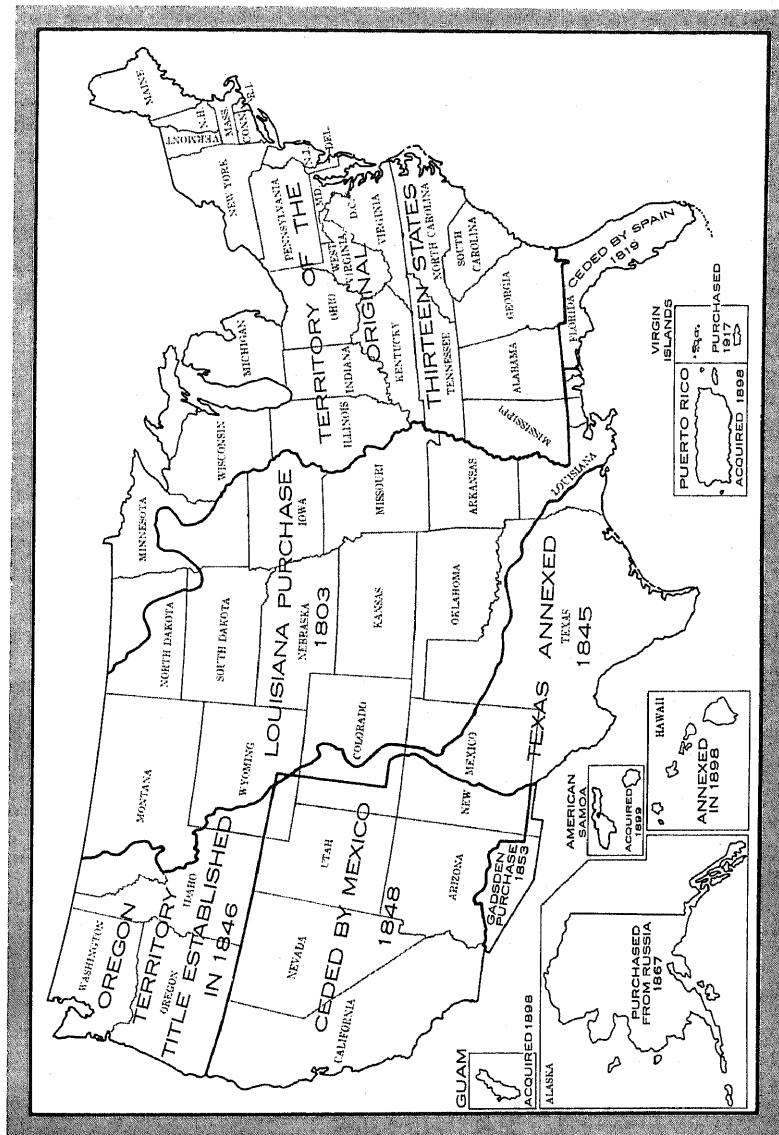
This system of normals has three characteristics: (1) The 30-year period (1931 to 1960) adopted for the computations is consistent with the term of years accepted by the World Meteorological Organization for climatic normals; (2) where the station and exposure for records in a given locality have been changed, the whole record has been carefully studied and adjusted to the latest source of records and reports; (3) the normals for maximum and minimum temperatures are separately tabulated.

The degree-day normals are derived from the values for the monthly normal maximum and minimum temperatures, and computed from the standard base 65° F. The degree day has been defined as follows: "A unit, based upon temperature difference and time, used in estimating fuel consumption and specifying nominal heating load in winter. For any one day, when the mean temperature is less than 65° F., there exist as many degree days as there are Fahrenheit degrees difference in the temperature between the average temperature for the day and 65° F."

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. IX. TERRITORIAL EXPANSION OF THE UNITED STATES AND ACQUISITIONS OF OTHER PRINCIPAL AREAS

[See table 243.]



Source: Dept. of Commerce, Bureau of the Census.

## Area, Geography, and Climate

## No. 243. TERRITORIAL EXPANSION OF THE UNITED STATES AND ACQUISITIONS OF OTHER AREAS

[Boundaries of all territories listed under "United States" were indefinite, at least in part, at time of acquisition. Area figures shown here represent precise determinations of specific territories which have been marked upon maps, based upon interpretations of the several treaties of cession, which are necessarily debatable. These determinations were made by a committee consisting of representatives of various governmental agencies in 1912. Subsequently these figures were adjusted to bring them into agreement with remeasurements made in 1960. See also *Historical Statistics, Colonial Times to 1957*, series J 1-2.]

ACCESSION	Date	Gross area (land and water)	ACCESSION	Date	Gross area (land and water)
Total.....	1960	Sq. mi. 3,628,062	Other: <i>The Philippines</i> <sup>2</sup> .....	1898	Sq. mi. 115,600
United States.....	(X)	3,615,123	Puerto Rico.....	1898	3,435
Territory in 1790.....	(X)	888,685	Guam.....	1899	212
Louisiana Purchase.....	1803	827,192			
By treaty with Spain:					
Florida.....	1819	58,560	American Samoa.....	1900	76
Other areas.....	1819	13,443	Canal Zone <sup>4</sup> .....	1904	553
Texas.....	1845	390,144	Corn Islands <sup>5</sup> .....	1914	4
Oregon.....	1846	285,580	Virgin Islands of the U.S.....	1917	133
Mexican Cession.....	1848	529,017	Trust Territory of the Pacific.....		
Gadsden Purchase.....	1853	29,640	Islands <sup>6</sup> .....	1947	8,484
Alaska.....	1867	586,412	All other <sup>7</sup> .....	(X)	42
Hawaii.....	1898	6,450			

X. Not applicable.

<sup>1</sup> Includes that part of drainage basin of Red River of the North, south of 49th parallel, sometimes considered part of Louisiana Purchase.

<sup>2</sup> Not included in total. Ceded by Spain in 1898, the Philippines constituted a territorial possession of the United States from 1898 to 1946. Granted independence as of July 4, 1946, they then became the Republic of the Philippines.

<sup>3</sup> Ceded by Spain in 1898 and became Commonwealth of Puerto Rico by Act of Congress on July 25, 1952. See table 10.

<sup>4</sup> Acquired 1898; ratified 1899.

<sup>5</sup> Acquired 1899; ratified 1900.

<sup>6</sup> Under jurisdiction of United States in accordance with treaty of Nov. 18, 1903, with Republic of Panama.

<sup>7</sup> Leased (1914) from Republic of Nicaragua for 99 years.

<sup>8</sup> Under trusteeship. See table 10, footnote 15.

<sup>9</sup> Comprises following islands with gross areas as indicated: Midway (2), Wake (3), Palmyra (4), Canton and Enderbury (combined area, 27), Swan (1), Navassa (2), Baker, Howland, and Jarvis (combined area, 3), Johnston and Sand (combined area, less than 0.5), Kingman Reef, Quita Suelo Bank, Roncador Cay, and Serrano Bank (each less than 0.5), and other islands specified in table 10, footnote 8, for which area figures are not available.

Source: Dept. of Commerce, Bureau of the Census; unpublished data.

## No. 244. COASTLINE OF THE UNITED STATES, BY STATES

[In statute miles]

STATE	General coastline <sup>1</sup>	Tidal shoreline <sup>2</sup>	STATE	General coastline <sup>1</sup>	Tidal shoreline <sup>2</sup>
United States.....	12,383	88,533	Atlantic coast—Continued		
Atlantic coast.....	2,069	28,673	South Carolina.....	187	2,876
Connecticut.....	—	618	Virginia.....	112	3,315
Delaware.....	28	381	Gulf coast.....		
Florida.....	580	3,331	Alabama.....	53	607
Georgia.....	100	2,344	Florida.....	770	5,095
Maine.....	228	3,478	Louisiana.....	397	7,721
Maryland.....	31	3,190	Mississippi.....	44	369
Massachusetts.....	192	1,519	Texas.....	367	3,359
New Hampshire.....	13	131	Pacific coast.....		
New Jersey.....	130	1,792	Alaska.....	7,623	40,298
New York.....	127	1,850	California.....	5,580	31,383
North Carolina.....	301	3,375	Hawaii.....	840	3,427
Pennsylvania.....	—	89	Oregon.....	750	1,052
Rhode Island.....	40	384	Washington.....	296	1,410
				157	3,026
				1,060	2,521

<sup>1</sup> Represents zero.

<sup>2</sup> Figures are lengths of general outline of seacoast. Measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1:1,200,000 as possible. Coastline of sounds and bays is included to a point where they narrow to width of unit measure, and includes the distance across at such point.

<sup>3</sup> Figures obtained in 1939-1940 with a recording instrument on the largest-scale charts and maps then available. Shoreline of outer coast, offshore islands, sounds, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

Source: Dept. of Commerce, Environmental Science Services Administration; *Coastline of the United States*, April 1, 1961.

## No. 245. AREA OF STATES AND OTHER AREAS: 1960

[Area in square miles]

STATE OR OTHER AREA	Capital	Year of admission to statehood	AREA			
			Total	Rank order	Land <sup>1</sup>	Water <sup>2</sup>
United States	Washington, D.C.	(X)	3,615,123	(X)	3,540,938	74,185
New England						
Maine	Augusta	1820	66,608	(X)	62,992	3,616
New Hampshire	Concord	1788	33,215	39	30,933	2,282
Vermont	Montpelier	1791	9,304	44	9,033	271
Massachusetts	Boston	1788	9,609	43	9,274	335
Rhode Island	Providence	1790	8,257	45	7,833	424
Connecticut	Hartford	1788	1,214	50	1,049	165
Middle Atlantic						
New York	Albany	1788	5,009	48	4,870	139
New Jersey	Trenton	1787	102,745	(X)	100,426	2,319
Pennsylvania	Harrisburg	1787	49,576	30	47,869	1,707
East North Central						
Ohio	Columbus	1803	36,291	35	41,018	204
Indiana	Indianapolis	1816	56,400	24	36,189	102
Illinois	Springfield	1818	58,216	23	55,877	523
Michigan	Lansing	1837	56,154	26	56,818	1,398
Wisconsin	Madison	1848	51,247	(X)	54,464	1,690
West North Central						
Minnesota	St. Paul	1858	84,068	12	79,289	4,779
Iowa	Des Moines	1846	56,290	25	56,043	247
Missouri	Jefferson City	1821	69,086	19	69,046	640
North Dakota	Bismarck	1889	70,665	17	69,280	1,335
South Dakota	Pierre	1889	77,047	16	75,956	1,091
Nebraska	Lincoln	1867	77,227	15	76,522	705
Kansas	Topeka	1861	82,264	14	82,056	208
South Atlantic						
Delaware	Dover	1787	278,776	(X)	267,352	11,424
Maryland	Annapolis	1788	2,057	49	1,982	75
District of Columbia						
Virginia	Richmond	1788	10,577	42	9,891	686
West Virginia	Charleston	1863	67	51	61	6
North Carolina	Raleigh	1789	40,817	36	39,841	976
South Carolina	Columbia	1788	52,586	28	48,880	3,706
Georgia	Atlanta	1788	31,055	40	30,280	775
Florida	Tallahassee	1845	58,876	21	58,197	679
East South Central						
Kentucky	Frankfort	1792	181,964	(X)	179,427	2,537
Tennessee	Nashville	1796	40,395	37	39,851	544
Alabama	Montgomery	1819	42,244	34	41,367	877
Mississippi	Jackson	1817	51,609	29	50,851	758
West South Central						
Arkansas	Little Rock	1836	47,716	32	47,358	358
Louisiana	Baton Rouge	1812	53,104	27	52,175	929
Oklahoma	Oklahoma City	1907	69,019	18	68,984	935
Texas	Austin	1845	267,339	2	262,970	4,360
Mountain						
Montana	Helena	1889	863,887	(X)	856,633	7,254
Idaho	Boise	1890	147,138	4	145,603	1,535
Wyoming	Cheyenne	1890	83,557	13	82,677	880
Colorado	Denver	1876	97,914	9	97,281	633
New Mexico	Santa Fe	1912	104,247	8	103,794	453
Arizona	Phoenix	1912	121,666	5	121,445	221
Utah	Salt Lake City	1912	113,909	6	113,563	346
Nevada	Carson City	1896	84,916	11	82,381	2,535
Pacific						
Washington	Olympia	1889	110,540	7	109,889	651
Oregon	Salem	1859	916,728	(X)	892,266	24,462
California	Sacramento	1850	68,192	20	66,663	1,629
Alaska	Juneau	1959	96,981	10	96,209	772
Hawaii	Honolulu	1959	158,693	3	156,537	2,156
Other areas:						
Puerto Rico	San Juan	(X)	3,435	(X)	3,421	14
American Samoa	Pago Pago	(X)	76	(X)	76	-
Canal Zone <sup>4</sup>						
Guam	(X)	553	(X)	382	191	
Trust Terr. of Pacific Is. <sup>5</sup>	Agana	(X)	212	(X)	209	3
Virgin Islands of U.S.	Charlotte Amalie	(X)	8,484	(X)	6,877	7,797
		(X)	133	(X)	132	1

<sup>1</sup> Represents zero. <sup>X</sup> Not applicable.<sup>2</sup> Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.<sup>3</sup> Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water; and islands having less than 40 acres of area. Excludes areas of oceans, bays, sounds, etc., lying within U.S. jurisdiction but not defined as inland water.<sup>4</sup> Year of ratification of Constitution; one of the original 13 States.<sup>5</sup> See table 10, footnote 12. <sup>6</sup> See table 10, footnote 15.

## Area, Geography, and Climate

## No. 246. DISTANCES BETWEEN EXTREME POINTS AND GEOGRAPHIC CENTERS OF THE UNITED STATES

[The geographic center of an area may be defined as the center of gravity of the surface, or that point on which the surface of the area would balance if it were a plane of uniform thickness. Because many factors such as curvature of the earth, large bodies of water, and irregular surfaces affect the determination of centers of gravity, the following positions should be considered as approximations only]

EXTREME POINT	Direction from geographic center	Latitude (North)	Longitude (West)	DISTANCE FROM GEOGRAPHIC CENTERS (miles)		
				50 States: W. of Castle Rock, S. Dak. 44°58'N-103°46'W	49 States (excl. Hawaii): Near Castle Rock, S. Dak. 44°59'N-103°38'W	48 States: Near Lebanon, Kans. 39°50'N-98°35'W
Point Barrow, Alaska	Northwest	71°23'	156°29'	2,502	2,504	2,984
Pochnoi Point, Semisopochnoi Island, Alaska.	Northwest	51°19'	178°55' (E)	3,368	3,367	3,793
West Point of Amatignak Island, Alaska.	Northwest	51°17'	179°00'	3,846	3,351	3,774
Cape Wrangell, Attu Island, Alaska.	Northwest	52°55'	172°27' (E)	3,620	3,623	4,054
Lake of the Woods Projection, Minn.	Northeast	49°23'	95°09'	507	497	1,680
North end, N.-S. boundary, Maine-New Brunswick, Canada.	Northeast	47°04'	67°47'	1,714	1,710	1,610
West Quoddy Head, Maine	East	44°49'	66°57'	1,785	1,779	2,1,640
Key West, Fla.	Southeast	24°33'	81°48'	1,869	1,865	1,436
Cape Sable, Fla.	Southeast	25°07'	81°05'	1,864	1,860	1,434
Log Point, Elliot Key, Fla.	Southeast	25°29'	80°11'	1,878	1,874	1,452
East Point, St. Croix, V.I.	Southeast	17°45'	64°34'	2,082	2,027	2,536
Extreme south point of Tex.	South	25°50'	97°24'	1,354	1,367	979
Steps Point, American Samoa	Southwest	14°23' (S)	170°46'	5,849	5,855	5,943
Orote Point, Guam	Southwest	13°27'	144°37' (E)	6,567	6,573	6,961
Kure Island, Hawaii	Southwest	28°25'	178°22'	4,136	4,143	4,479
KaLae, South Cape, Hawaii	Southwest	18°56'	155°41'	3,456	3,463	3,657
Cape Mendocino, Calif.	West	40°27'	124°24'	1,089	1,095	1,358
Cape Alva, Wash.	West	48°10'	124°44'	1,016	1,020	1,412

E=East. N=North. S=South. W=West.

<sup>1</sup> General direction to Lake of the Woods Projection, Minnesota, is north.

<sup>2</sup> General direction to West Quoddy Head, Maine, is northeast.

Source: Dept. of the Interior, Geological Survey; *Extreme Points of the United States*. (MIO-18A.) October 1966.

## No. 247. DISTANCES BETWEEN EXTREME POINTS IN THE UNITED STATES AND OUTLYING AREAS

[Computed to mean sea level]

From—	To—	Miles
West Quoddy Head, Maine	Pacific Ocean—along the parallel	2,807
West Quoddy Head, Maine	Cape Wrangell, Alaska	4,839
West Quoddy Head, Maine	Kure Island, Hawaii	5,788
West Quoddy Head, Maine	Point Arena, Calif.—points farthest apart, 48 States	2,897
Log Point, Elliot Key, Fla.	Kure Island, Hawaii—points farthest apart, 50 States	5,852
Log Point, Elliot Key, Fla.	Cape Wrangell, Alaska	5,495
Mangrove Point, Fla.	Kure Island, Hawaii	5,848
Mangrove Point, Fla.	Cape Wrangell, Alaska	5,496
Rivera Beach, Fla.	Kure Island, Hawaii	5,815
East Point, St. Croix, V.I.	Cape Wrangell, Alaska	5,939
East Point, St. Croix, V.I.	Orote Point, Guam—greatest distance including outlying areas	9,497
Approx. 10 mi. S. of Brunswick, Ga.	Approx. 12 mi. S. of San Diego, California—shortest distance, 48 States	2,088
N. end of Maine-New Brunswick boundary	Orote Point, Guam	7,797
Point Barrow, Alaska	Steps Point, Tutuila Island, American Samoa	5,960
Southernmost point of Tex.	Due north to 49th parallel	1,598
West point of Amatignak Island, Alaska	Pochnoi Point, Semisopochnoi Island, Alaska—distance between most easterly and most westerly points in United States with reference to 180° meridian	63

N=North. S=South.

Source: Dept. of the Interior, Geological Survey; *Extreme Points of the United States*. (MIO-18A.) October 1966.

## No. 248. WATER AREA, OTHER THAN INLAND WATER—STATES

[In square miles. Includes only that portion of body of water under the jurisdiction of the United States, excluding Alaska and Hawaii. Excludes inland waters; see footnote 2, table 245]

BODY OF WATER AND STATE	Area	BODY OF WATER AND STATE	Area	BODY OF WATER AND STATE	Area
Total	74,364	Straits of Georgia and Juan de Fuca; Washington		New York Harbor	92
Atlantic coastal water		Lake Huron, Michigan	8,975	New Jersey	69
Florida	2,298	Long Island Sound	1,289	New York	23
Georgia	37	Connecticut	573	Lake Ontario: New York	3,033
Maine	48	New York	726	Pacific coastal water	343
Massachusetts	1,102	Gulf of Mexico coastal water	3,837	California	69
Rhode Island	959	Alabama	560	Oregon	48
South Carolina	14	Florida	1,698	Washington	226
Chesapeake Bay	138	Louisiana	1,016	Puget Sound: Washington	561
Maryland	3,237	Mississippi	556	Lake St. Clair: Michigan	116
Virginia	1,726	Texas	7	Lake Superior	21,118
Delaware Bay	665	Lake Michigan	22,178	Michigan	16,231
Delaware	350	Illinois	1,526	Minnesota	2,212
New Jersey	315	Indiana	13,037	Wisconsin	2,675
Lake Erie	5,002	Michigan	7,387		
Michigan	216	Wisconsin			
New York	594				
Ohio	3,457				
Pennsylvania	735				

Source: Dept. of Commerce, Bureau of the Census; *Areas of the United States: 1940*.

## No. 249. LENGTHS OF PRINCIPAL RIVERS

[Comprises rivers 400 miles or more in length. Length represents distance to designated outflow from (a) original headwater of named river where name applies to entire length of channel, or (b) upper limit of channel so named, usually the junction of 2 tributaries or headwater streams]

RIVER	Outflow	Length (miles)	RIVER	Outflow	Length (miles)
Apalachicola-Chattahoochee	Gulf of Mexico	550	Neosho	Arkansas River	450
Arkansas	Mississippi River	1,450	Niobrara	Missouri River	431
Belle Fourche	Cheyenne River	416	North Canadian	Canadian River	784
Big Sioux	Missouri River	420	North Platte	Platte River	690
Brazos	Gulf of Mexico	1,210	Ohio	Mississippi River	631
Canadian	Arkansas River	906	Ohio-Allegheny	Mississippi River	1,306
Cimarron	Arkansas River	698	Ouachita	Red River	605
Clark Fork-Pend Oreille	Columbia River	505	Pearl	Gulf of Mexico	490
Colorado (U.S.-Mex.)	Gulf of California	1,450			
Colorado (Texas)	Matagorda Bay	894	Pecos	Rio Grande	926
Columbia	Pacific Ocean	1,214	Pee Dee-Yadkin	Winyah Bay	435
Columbia, Upper	To mouth of Snake River	890	Porcupine	Yukon River	555
Colville	Beaufort Sea	428	Powder	Yellowstone River	486
Connecticut	Long Island Sound	407	Red (Okla.-Tex.-La.)	Mississippi River	1,222
Cumberland	Ohio River	687	Red River of the North	Lake Winnipeg	545
Gila	Colorado River	630	Republican	Kansas River	422
Green (Utah-Wyo.)	Colorado River	730		Gulf of Mexico	1,885
Imnok	Yukon River	463	Rio Grande	Bay of Fundy	400
James (N. Dak.-S. Dak.)	Missouri River	710	St. John	Snake River	402
Kootenai	Columbia River	485	Salmon (Idaho)	Atlantic Ocean	438
Koyukuk	Yukon River	554	Santee-Wateree-Catawba	Kansas River	560
Kuskokwim	Kuskokwim Bay	800	Smoky Hill	Columbia River	1,000
Little Missouri	Missouri River	560	Snake	Platte River	442
Marais des Cygnes-Osage	Missouri River	496	South Platte	Chesapeake Bay	458
Milk	Missouri River	625	Susquehanna	Yukon River	531
Mississippi	Mouth of SW Pass	2,348	Tanana	Ohio River	652
Mississippi, Upper	To mouth of Missouri River	1,171	Tennessee	Ohio River	869
Mississippi-Missouri-Red Rock	Mouth of SW Pass	3,741	Tennessee-French Broad	Mobile River	409
Missouri	Mississippi River	2,315	Tombigbee	Trinity Bay	715
Missouri-Red Rock	Mississippi River	2,564	Trinity	Ohio River	475
Mobile-Alabama-Coosa	Mobile Bay	639	Wabash	Red River	626
			Washtita	Mississippi River	685
			White (Ark.-Mo.)	Missouri River	507
			White	Mississippi River	430
			Yellowstone	Missouri River	671
			Yukon	Bering Sea	1,875

Source: Dept. of the Army, Corps of Engineers; unpublished data.

## No. 250. AREAS OF SELECTED NATURAL LAKES

[In square miles. Comprises lakes with surface area of 100 square miles or more]

Lake	State	Area	Lake	State	Area
Bear.....	Idaho and Utah.....	110	Rainy.....	Minnesota and Canada.....	345
Becharof.....	Alaska.....	458	Red Lake (Upper and Lower).....	Minnesota.....	451
Champlain.....	New York, Vermont, and Canada.....	490	St. Clair.....	Michigan and Canada.....	460
Clark.....	Alaska.....	110	Salton Sea <sup>1</sup> .....	California.....	2,350
Dall.....	Alaska.....	100	Tahoe.....	California and Nevada.....	193
Flathead.....	Montana.....	197	Teshukpuk.....	Alaska.....	315
Great Salt <sup>1</sup> .....	Utah.....	2,100	Tustumena.....	Alaska.....	117
Ilamna.....	Alaska.....	1,000	Ugashik (Upper and Lower).....	Alaska.....	
Lake of the Woods.....	Minnesota and Canada.....	1,485	Upper Klamath.....	Oregon.....	142
Leech.....	Minnesota.....	176	Utah.....	Utah.....	140
Mille Lacs.....	Minnesota.....	207	Winnebago.....	Wisconsin.....	215
Moosehead.....	Maine.....	117	Winnibigoshish.....	Minnesota.....	109
Naknek.....	Alaska.....	242	Yellowstone.....	Wyoming.....	137
Okeechobee.....	Florida.....	700			
Pend Oreille.....	Idaho.....	148			
Pontchartrain <sup>1</sup> .....	Louisiana.....	625			

<sup>1</sup> Salty. <sup>2</sup> Variable.Source: Dept. of the Interior, Geological Survey; *Principal Lakes of the United States*, Circular 476.

## No. 251. ALTITUDES OF NAMED SUMMITS

[In feet. Comprises peaks over 14,000 feet above sea level]

Summit	State	Rank	Altitude	Summit	State	Rank	Altitude
Mt. McKinley.....	Alaska.....	1	20,320	Kit Carson Mtn.....	Colo.....	45	14,165
North Peak.....	Alaska.....	2	19,470	Mt. Wrangell.....	Alaska.....	46	14,163
Mt. St. Elias.....	Alaska.....	3	18,008	Mt. Shasta.....	Calif.....	47	14,162
Mt. Foraker.....	Alaska.....	4	17,490	Mt. Sill.....	Calif.....	48	14,162
Mt. Bona.....	Alaska.....	5	16,500	El Diente Peak.....	Colo.....	49	14,159
Mt. Blackburn.....	Alaska.....	6	16,390	Maroon Peak.....	Colo.....	50	14,156
Mt. Sanford.....	Alaska.....	7	16,237	Tabeguache Mtn.....	Colo.....	51	14,155
South Buttress.....	Alaska.....	8	15,885	Mt. Oxford.....	Colo.....	52	14,153
Mt. Vancouver.....	Alaska.....	9	15,700	Mt. Sneffels.....	Colo.....	53	14,150
Mt. Fairweather.....	Alaska.....	10	15,300	Point Success.....	Wash.....	54	14,150
Mt. Hubbard.....	Alaska.....	11	15,015	Mt. Democrat.....	Colo.....	55	14,148
Mt. Bear.....	Alaska.....	12	14,831	Liberty Cap.....	Wash.....	56	14,133
East Buttress.....	Alaska.....	13	14,730	Capitol Peak.....	Colo.....	57	14,130
Mt. Hunter.....	Alaska.....	14	14,573	Mt. Lindsey.....	Colo.....	58	14,125
Mt. Alverstone.....	Alaska.....	15	14,565	Pikes Peak.....	Colo.....	59	14,110
Browne Tower.....	Alaska.....	16	14,530	Snowmass Mtn.....	Colo.....	60	14,092
Mt. Whitney.....	Calif.....	17	14,494	Windom Peak.....	Colo.....	61	14,087
Mt. Elbert.....	Colo.....	18	14,431	Mt. Russell.....	Calif.....	62	14,086
Mt. Harvard.....	Colo.....	19	14,420	Mt. Eolus.....	Colo.....	63	14,084
Mt. Massive.....	Colo.....	20	14,418	Columbia Peak.....	Colo.....	64	14,073
Mt. Rainier.....	Wash.....	21	14,410	Mt. Augusta.....	Alaska.....	65	14,070
Mt. Williamson.....	Calif.....	22	14,375	Culebra Peak.....	Colo.....	66	14,069
La Plata Peak.....	Colo.....	23	14,340	Missouri Mtn.....	Colo.....	67	14,067
Blanca Peak.....	Colo.....	24	14,317	Humboldt Peak.....	Colo.....	68	14,064
Uncompahgre Peak.....	Colo.....	25	14,309	Mt. Bierstadt.....	Colo.....	69	14,060
Crestone Peak.....	Colo.....	26	14,294	Sunlight Peak.....	Colo.....	70	14,059
Mt. Lincoln.....	Colo.....	27	14,285	Split Mtn.....	Calif.....	71	14,058
Grays Peak.....	Colo.....	28	14,270	Handies Peak.....	Colo.....	72	14,048
Mt. Antero.....	Colo.....	29	14,269	Middle Palisade.....	Calif.....	73	14,040
Torreys Peak.....	Colo.....	30	14,267	Little Bear Peak.....	Colo.....	74	14,037
Castle Peak.....	Colo.....	31	14,265	Mt. Sherman.....	Colo.....	75	14,036
Mt. Evans.....	Colo.....	32	14,264	Redcloud Peak.....	Colo.....	76	14,034
Quandary Peak.....	Colo.....	33	14,264	Mt. Langley.....	Calif.....	77	14,028
Longs Peak.....	Colo.....	34	14,256	Comundrum Peak.....	Colo.....	78	14,022
Mt. Wilson.....	Colo.....	35	14,246	Mt. Tyndall.....	Calif.....	79	14,018
White Mtn.....	Calif.....	36	14,246	Pyramid Peak.....	Colo.....	80	14,018
North Palisade.....	Calif.....	37	14,242	Wetterhorn Peak.....	Colo.....	81	14,017
Mt. Cameron.....	Colo.....	38	14,238	Wilson Peak.....	Colo.....	82	14,017
Shavano Peak.....	Colo.....	39	14,229	Mt. Muir.....	Calif.....	83	14,015
Mt. Belford.....	Colo.....	40	14,197	North Maroon Peak.....	Colo.....	84	14,014
Mt. Princeton.....	Colo.....	41	14,197	San Luis Peak.....	Colo.....	85	14,014
Mt. Yale.....	Colo.....	42	14,196	Huron Peak.....	Colo.....	86	14,005
Crestone Needles.....	Colo.....	43	14,191	Mt. of the Holy Cross.....	Colo.....	87	14,005
Mt. Bross.....	Colo.....	44	14,172	Sunshine Peak.....	Colo.....	88	14,001

Source: Dept. of the Interior, Geological Survey; *Named Summits of the United States Over 14,000 Feet Above Sea Level*, MG-20, June 1967.

No. 252. EXTREME AND MEAN ELEVATIONS—STATES AND OTHER AREAS  
[In feet]

STATE OR OTHER AREA	HIGHEST POINT		LOWEST POINT		Approximate mean elevation
	Name	Elevation	Name	Elevation	
United States.....	Mount McKinley.....	20,320	Death Valley.....	-282	2,500
Alabama.....	Cheaha Mountain.....	2,407	Gulf of Mexico.....	(1)	500
Alaska.....	Mount McKinley.....	20,320	Pacific Ocean.....	(1)	1,900
Arizona.....	Humphreys Peak.....	12,633	Colorado River.....	70	4,100
Arkansas.....	Magazine Mountain.....	2,753	Ouachita River.....	55	650
California.....	Mount Whitney.....	14,494	Death Valley.....	-282	2,900
Colorado.....	Mount Elbert.....	14,431	Arkansas River.....	3,350	6,800
Connecticut.....	Mt. Frissell, on South slope.....	2,380	Long Island Sound.....	(1)	500
Delaware.....	Ebright Road.....	442	Atlantic Ocean.....	(1)	60
District of Columbia.....	Tenleytown.....	410	Potomac River.....	(1)	150
Florida.....	Sec. 30, T6N, R20W, Walton County <sup>2</sup> .....	345	Atlantic Ocean.....	(1)	100
Georgia.....	Brasstown Bald.....	4,784	Atlantic Ocean.....	(1)	600
Hawaii.....	Mauna Kea.....	13,706	Pacific Ocean.....	(1)	1,980
Idaho.....	Borah Peak.....	12,652	Snake River.....	710	5,000
Illinois.....	Charles Mound.....	1,235	Mississippi River.....	279	600
Indiana.....	Franklin Twp., Wayne Co. Co.....	1,257	Ohio River.....	320	700
Iowa.....	Ocheyedan Mound, Osceola Co.....	1,675	Mississippi River.....	480	1,100
Kansas.....	Mount Sunflower.....	4,039	Verdigris River.....	680	2,000
Kentucky.....	Black Mountain.....	4,145	Mississippi River.....	257	750
Louisiana.....	Driskill Mountain.....	535	New Orleans.....	-5	100
Maine.....	Mount Katahdin.....	5,268	Atlantic Ocean.....	(1)	600
Maryland.....	Backbone Mountain, near Kemptown, W. Va.....	3,360	Atlantic Ocean.....	(1)	350
Massachusetts.....	Mount Greylock.....	3,491	Atlantic Ocean.....	(1)	500
Michigan.....	Mount Curwood.....	1,980	Lake Erie.....	572	900
Minnesota.....	Eagle Mountain, Cook Co.....	2,301	Lake Superior.....	602	1,200
Mississippi.....	Woodall Mountain, near Iuka.....	806	Gulf of Mexico.....	(1)	300
Missouri.....	Taum Sauk Mountain.....	1,772	St. Francis River.....	230	800
Montana.....	Granite Peak.....	12,799	Kootenai River.....	1,800	3,400
Nebraska.....	Johnson Twp., Kimball Co., T12N, R55W <sup>1</sup> .....	5,424	Southeast corner of State.....	840	2,600
Nevada.....	Boundary Peak.....	13,140	Colorado River.....	470	5,500
New Hampshire.....	Mount Washington.....	6,288	Atlantic Ocean.....	(1)	1,000
New Jersey.....	High Point.....	1,803	Atlantic Ocean.....	(1)	250
New Mexico.....	Wheeler Peak.....	13,161	Red Bluff Reservoir.....	2,817	5,700
New York.....	Mount Marcy.....	5,344	Atlantic Ocean.....	(1)	1,000
North Carolina.....	Mount Mitchell.....	6,034	Atlantic Ocean.....	(1)	700
North Dakota.....	White Butte, Slope Co.....	3,506	Red River.....	750	1,900
Ohio.....	Campbell Hill.....	1,550	Ohio River.....	433	850
Oklahoma.....	Black Mesa.....	4,973	Little River.....	287	1,300
Oregon.....	Mount Hood.....	11,235	Pacific Ocean.....	(1)	3,300
Pennsylvania.....	Mount Davis.....	3,213	Delaware River.....	(1)	1,100
Rhode Island.....	Jerimoth Hill.....	812	Atlantic Ocean.....	(1)	200
South Carolina.....	Sassafras Mountain.....	3,580	Atlantic Ocean.....	(1)	350
South Dakota.....	Harney Peak.....	7,242	Big Stone Lake.....	962	2,200
Tennessee.....	Clingmans Dome.....	6,643	Mississippi River.....	182	900
Texas.....	Guadalupe Peak.....	8,751	Gulf of Mexico.....	(1)	1,700
Utah.....	Kings Peak.....	13,528	Beaverdam Creek.....	2,000	6,100
Vermont.....	Mount Mansfield.....	4,393	Lake Champlain.....	95	1,000
Virginia.....	Mount Rogers.....	5,729	Atlantic Ocean.....	(1)	950
Washington.....	Mount Rainier.....	14,410	Pacific Ocean.....	(1)	1,700
West Virginia.....	Spruce Knob.....	4,862	Potomac River.....	240	1,500
Wisconsin.....	Timms Hill.....	1,952	Lake Michigan.....	581	1,050
Wyoming.....	Gannett Peak.....	13,785	Belle Fourche River.....	3,100	6,700
Other areas:					
Puerto Rico.....	Cerro de Punta.....	4,389	Atlantic Ocean.....	(1)	2,200
American Samoa.....	Jata.....	3,056	Pacific Ocean.....	(1)	1,500
Canal Zone.....	Cerro Galera.....	1,205	Atlantic Ocean.....	(1)	100
Guam.....	Mount Lamlam.....	1,329	Pacific Ocean.....	(1)	650
Virgin Islands.....	Crown Mountain.....	1,556	Atlantic Ocean.....	(1)	750

<sup>1</sup> Sea level. <sup>2</sup> "Sec." denotes section; "T", township; "R", range; "N", north; "W", west; "S", south.

Source: Dept. of the Interior, Geological Survey; *Extreme and Mean Elevations in the United States and its Possessions*, MI-10-18. December 1967.

## No. 253. TORNADOES, FLOODS, AND TROPICAL CYCLONES: 1931 TO 1967

PERIOD OR YEAR	TORNADOES			FLOODS		NORTH ATLANTIC TROPICAL CYCLONES AND HURRICANES <sup>1</sup>			
	Number	Lives lost		Number with property loss of \$500,000 and over	Lives lost	Property loss (mil. dol.)	Number reaching U.S. coast		
		Total	Most in a single tornado during period				Total	Hurricanes only	
1931-35	830	909	37	15	368	187	21	12	494
1936-40	787	916	216	17	607	873	21	8	663
1941-45	727	980	100	39	346	605	20	11	105
1946-50	902	813	169	50	306	843	22	12	79
1951-55	2,087	940	116	80	502	2,507	18	9	416
1956-60	3,168	445	44	80	228	877	20	7	507
1961-65	3,413	482	44	94	320	1,844	13	8	185
1960	618	47	16	12	32	93	5	2	65
1961	683	51	16	22	52	154	3	2	46
1962	658	28	17	10	19	75	1	-	4
1963	461	31	5	15	39	176	1	1	11
1964	713	73	22	17	100	651	6	4	49
1965	898	299	44	30	119	788	2	1	75
1966	570	105	58	17	31	117	2	2	54
1967	912	116	33	41	20	260	2	2	18

<sup>1</sup> Represents zero.<sup>1</sup> Tropical cyclones have maximum winds of 39 to 73 miles per hour; hurricanes have maximum winds of 74 miles per hour or higher. <sup>2</sup> Estimated.Source: Dept. of Commerce, Environmental Science Services Administration; *Climatological Data National Summary*. Monthly with annual summary.

## No. 254. INVENTORY OF PUBLIC WATER SUPPLIES FOR COMMUNITY WATER SYSTEMS: 1963

[Includes only systems serving a population of 25,000 or more. Estimated total number of public water systems in the United States (conterminous area) is 21,000 serving a population of approximately 144 million. An estimated 16.0 percent of water used by manufacturing industries is supplied by public water systems]

ITEM	Total	COMMUNITIES HAVING A POPULATION SERVED OF—				
		500,000 or more	250,000 to 499,999	100,000 to 249,999	50,000 to 99,999	25,000 to 49,999
Communities and districts—number	926	43	35	137	251	460
Estimated population served—1,000	104,810	50,648	9,977	18,525	12,372	13,288
Ownership of public water supply—number	926	43	35	137	251	460
Municipal or district—public—number	772	38	27	113	215	379
Private—number	154	5	8	24	36	81
Average output of water <sup>1</sup> —mil. gal. daily	15,694	7,614	1,481	2,947	1,725	1,927
Water used, maximum month <sup>1</sup> —mil. gal.	621,606	304,701	57,453	113,707	68,010	77,735
Water used, maximum day <sup>1</sup> —mil. gal.	25,287	11,994	2,416	4,771	2,850	3,256
Impounded storage—mil. gal.	5,982,917	2,440,578	585,871	1,232,258	506,462	1,217,748
Transmission capacity, maximum mil. gal. daily	32,770	19,414	3,538	4,293	3,000	2,525
Dependable yield, ground water mil. gal. daily	8,300	1,337	857	1,972	1,550	2,584
Raw water storage—mil. gal.	378,062	311,943	50,751	1,960	10,708	2,705
Raw water pumping capacity—mil. gal. daily	25,585	12,699	2,174	5,116	2,990	2,879
Treatment plant:						
Rated capacity—mil. gal. daily	25,511	12,125	2,586	4,953	2,870	3,337
Overload capacity <sup>1</sup> —mil. gal. daily	31,176	13,701	3,016	7,177	3,428	3,854
Service pumping capacity—mil. gal. daily	31,412	13,766	3,226	6,659	3,942	3,819
Distribution storage:						
Pumped to mains—mil. gal.	6,558	2,194	443	1,361	1,610	950
Elevated—mil. gal.	76,188	58,135	1,706	11,515	2,521	2,311
Number of services <sup>1</sup> —1,000	28,933	8,732	2,384	4,881	3,704	4,232
Number of meters <sup>1</sup> —1,000	21,317	7,086	2,339	4,481	3,495	3,898

<sup>1</sup> Approximately 5 percent estimated.

Source: Dept. of Commerce, Business and Defense Services Administration. Compiled from unpublished data provided by Dept. of Health, Education, and Welfare, Public Health Service.

# Water Use

173

## No. 255. ESTIMATED WATER USE: 1900 TO 1967, AND PROJECTIONS TO 1980

[In billions of gallons daily average. In preparing these projections, it was estimated that the population residing in the United States (conterminous area) would grow from 176.2 million in 1959 to 230.8 million in 1980, and that the index of industrial production would rise from approximately 152 to 330 in the same period. See also *Historical Statistics, Colonial Times to 1957*, series J 91-102]

YEAR	TOTAL WATER USE		IRRIGATION <sup>1</sup>		PUBLIC WATER UTILITIES		SELF-SUPPLIED USES					
							Rural domestic <sup>2</sup>		Industrial and miscellaneous <sup>3</sup>		Steam electric utilities	
	Total	Ground	Total	Ground	Total	Ground	Total	Ground	Total	Ground	Total	Ground
1900	40.19	7.28	20.19	2.22	3.00	1.05	2.00	1.60	10.00	2.40	5.00	0.01
1910	66.44	11.68	39.04	5.27	4.70	1.49	2.20	1.76	14.00	3.15	6.50	0.01
1920	91.54	15.78	55.94	8.17	6.00	1.79	2.40	1.94	18.00	3.87	9.20	0.01
1930	110.50	18.18	60.20	9.09	8.00	2.30	2.90	2.40	21.00	4.37	18.40	0.02
1940	136.43	22.56	71.03	11.22	10.10	2.82	3.10	2.64	29.00	5.86	23.20	0.02
1945	170.46	28.33	83.06	14.12	12.00	3.28	3.20	2.78	41.00	8.12	31.20	0.03
1950	202.70	35.19	100.00	19.80	14.10	3.78	4.60	4.09	38.10	7.47	45.90	0.05
1955	263.80	47.79	116.30	29.08	16.30	4.27	5.40	4.91	49.20	9.45	76.60	0.08
1960	322.90	58.17	135.00	35.24	22.00	5.68	6.00	5.58	61.20	11.57	98.70	0.10
1965	371.70	66.30	148.10	40.14	25.00	6.28	6.50	6.14	73.20	13.62	118.90	0.12
1966	379.60	67.68	150.28	40.95	25.40	6.35	6.58	6.22	75.76	14.04	121.58	0.12
1967	387.50	69.08	152.46	41.76	25.80	6.42	6.66	6.31	78.32	14.47	124.26	0.12
1970	411.20	73.27	159.00	44.20	27.00	6.64	6.90	6.56	86.00	15.74	132.30	0.13
1975	449.70	79.37	169.70	47.52	29.80	7.15	7.20	6.85	98.40	17.71	144.60	0.14
1980	494.10	84.94	178.00	50.02	32.00	7.36	7.40	7.04	115.00	20.36	161.70	0.16

<sup>1</sup> Total take, including delivery losses but not including reservoir evaporation.

<sup>2</sup> Rural farm and nonfarm household and garden use, and water for farm stock and dairies.

<sup>3</sup> Manufacturing and mineral industries, rural commercial industries, air-conditioning, resorts, hotels, motels, military and other State and Federal agencies, and other miscellaneous uses.

Source: Dept. of Commerce, Business and Defense Services Administration; *Water Use in the United States, 1900-1980*, and unpublished data.

## No. 256. POPULATION USING FLUORIDATED WATER—STATES AND PUERTO RICO: 1967

[As of December 31. Covers both natural and controlled fluoridation]

STATE OR OTHER AREA	TOTAL POPULATION <sup>1</sup>		POPULATION USING PUBLIC WATER <sup>2</sup>		STATE OR OTHER AREA	TOTAL POPULATION <sup>1</sup>		POPULATION USING PUBLIC WATER <sup>2</sup>	
	Number (1,000)	Percent using fluoridation	Number (1,000)	Percent using fluoridation		Number (1,000)	Percent using fluoridation	Number (1,000)	Percent using fluoridation
<b>Total</b>	<b>201,542</b>	<b>40.6</b>	<b>155,218</b>	<b>52.8</b>	Montana	701	25.2	474	37.3
Alabama	3,556	24.0	2,254	37.9	Nebraska	1,433	8.8	1,081	12.3
Alaska	275	42.2	152	76.4	Nevada	451	5.3	384	6.3
Arizona	1,650	7.7	1,465	8.7	New Hampshire	691	7.5	455	11.4
Arkansas	1,975	29.4	1,071	54.2	New Jersey	7,053	12.6	6,190	14.4
California	19,340	12.4	17,981	13.3	New Mexico	1,004	58.1	734	79.5
Colorado	1,955	71.6	1,636	86.9	New York	18,410	65.1	16,137	74.3
Connecticut	2,950	57.2	2,366	71.6	North Carolina	5,057	36.6	2,559	72.3
Delaware	528	40.0	390	54.1	North Dakota	637	44.1	338	83.3
Dist. of Columbia	811	100.0	811	100.0	Ohio	10,497	32.5	8,154	41.8
Florida	6,048	24.1	4,681	31.2	Oklahoma	2,505	54.9	1,897	72.5
Georgia	4,538	31.0	3,153	44.5	Oregon	2,012	14.5	1,530	19.0
Hawaii	745	12.7	720	13.1	Pennsylvania	11,636	38.4	9,354	45.3
Idaho	700	30.3	461	46.0	Rhode Island	901	80.5	806	89.9
Illinois	10,938	66.5	9,246	78.7	South Carolina	2,604	27.0	1,465	48.0
Indiana	5,021	54.9	3,315	83.2	South Dakota	671	25.2	393	43.0
Iowa	2,748	58.3	1,880	85.2	Tennessee	3,904	41.5	2,546	68.7
Kansas	2,274	43.1	1,736	56.5	Texas	10,935	58.5	8,812	72.6
Kentucky	3,195	44.6	1,829	77.9	Utah	1,033	4.4	957	4.8
Louisiana	3,684	7.0	2,768	9.3	Vermont	419	13.8	245	23.6
Maine	971	21.8	552	36.3	Virginia	4,574	57.8	2,925	90.4
Maryland	3,715	73.8	2,903	94.5	Washington	3,110	13.8	2,558	16.8
Massachusetts	5,432	7.2	5,053	7.8	West Virginia	1,792	49.0	1,107	79.4
Michigan	8,641	63.1	6,056	90.0	Wisconsin	4,201	59.2	2,721	91.4
Minnesota	3,586	51.3	2,167	84.8	Wyoming	313	27.6	234	36.9
Mississippi	2,353	13.4	1,184	26.7	Puerto Rico	2,713	66.7	1,960	92.3
Missouri	4,626	42.5	3,402	57.8					

<sup>1</sup> U.S. population for Dec. 31, 1967, based on provisional estimates in Bureau of the Census: *Current Population Reports; Population Estimates, 1967* (Series P-25, No. 380, Nov. 24, 1967) and U.S. Census of Population: 1960; Number of Inhabitants; Final Report PC (1).

<sup>2</sup> Source: U.S. Census of Housing: 1960, Series HC(1), Nos. 1-52. Includes adjustments for population growth based on Bureau of the Census estimates.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Fluoridation Census*, 1967.

## Area, Geography, and Climate

## No. 257. SUSPENDED PARTICULATE MATTER LEVELS IN CITIES, BY POPULATION SIZE GROUPS: 1957-65 AND 1966

[Particulate matter levels in micrograms per cubic meter. Based on 42,446 air samples taken in 336 cities. Suspended particulate matter: Particles of smoke, dust, and fumes and droplets of viscous liquid remaining in the air for varying periods of time and ranging from less than 1 micron (1/25,000 inch) to 100 microns]

POPULATION SIZE GROUP	1957-65		CITIES SAMPLED IN 1966					
	Cities sampled	Average particulate matter level	Total	By average particulate matter levels				
				20-59	60-99	100-139	140-179	180-219
Total	336	89	216	21	92	68	29	3
2,500 to 49,999	118	85	78	17	35	19	5	-
50,000 to 99,999	92	113	47	-	23	17	4	2
100,000 to 399,999	95	113	61	4	24	21	11	1
400,000 to 699,999	19	126	18	-	8	6	4	-
700,000 to 999,999	7	127	7	-	2	2	3	-
1,000,000 and over	5	170	5	-	-	3	2	-

- Represents zero.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Air Pollution Measurements of the National Air Sampling Network, 1957-1961*; annual reports, *Air Quality Data*; and unpublished data.

## No. 258. AVERAGE BETA RADIOACTIVITY CONCENTRATIONS IN AIR—STATES AND PUERTO RICO: 1960 TO 1966

[In micromicrocuries per cubic meter. Values based on one air sampling station per State, except as noted]

STATE OR OTHER AREA	1960	1961	1962	1963	1964	1965	1966
Alabama	(1)	(1)	(1)	(1)	1.0	0.2	0.2
Alaska	2 3 0.11	1.4	2.5	2.2	0.5	0.2	0.1
Arizona	2 0.21	3.0	7.1	6.6	1.4	0.4	0.4
Arkansas	2 0.12	5.5	5.4	5.8	1.1	0.2	0.2
California	2 6 0.13	6.3	6.5	4.1	0.8	0.2	0.2
Colorado	2 0.17	3.4	8.1	6.0	1.4	0.3	0.3
Connecticut	2 0.12	2.7	4.4	4.1	1.0	0.2	0.1
Delaware	(1)	(1)	5.4	6.0	1.2	0.2	0.1
District of Columbia	2 0.15	3.2	4.7	4.6	1.3	0.2	0.1
Florida	2 0.14	5.2	6.2	4.5	1.3	0.2	0.2
Georgia	2 0.15	4.0	4.3	4.7	0.7	0.3	0.2
Hawaii	2 0.13	1.0	2.3	2.6	0.6	0.2	0.2
Idaho	2 0.19	4.1	6.6	5.9	1.1	0.8	0.2
Illinois	2 0.16	3.5	4.5	4.3	1.0	0.2	0.2
Indiana	2 0.13	2.9	4.7	4.8	1.2	0.2	0.2
Iowa	2 0.13	3.4	4.2	3.5	1.0	0.2	0.2
Kansas	2 0.13	3.6	5.1	4.3	0.9	0.2	0.2
Kentucky	(1)	9.2	5.0	5.1	1.2	0.3	0.2
Louisiana	2 0.15	4.8	5.4	4.1	0.9	0.2	0.2
Maine	(1)	5.0	7.8	4.1	1.0	0.2	0.1
Maryland	2 0.15	2.9	5.3	4.5	1.0	0.2	0.2
Massachusetts	2 0.11	1.7	4.2	5.1	1.0	0.2	0.1
Michigan	2 0.13	4.7	6.5	5.2	1.4	0.3	0.2
Minnesota	2 0.12	3.2	3.9	4.0	0.8	0.2	0.1
Mississippi	2 0.17	6.2	6.7	5.3	1.2	0.3	0.2
Missouri	2 0.13	4.8	4.8	4.2	0.8	0.2	0.2
Montana	2 0.13	2.7	6.5	4.9	1.0	0.4	0.2
Nebraska	(1)	8.0	7.4	4.5	0.8	0.3	0.2
Nevada	(1)	(1)	10.1	8.9	3.1	0.5	0.3
New Hampshire	(1)	(1)	7.4	6.0	1.8	0.3	0.1
New Jersey	2 0.14	3.1	4.4	4.3	1.1	0.2	0.1
New Mexico	2 0.18	3.5	7.1	5.0	1.2	0.2	0.3
New York	2 0.12	2.8	7.5	4.6	1.1	0.2	0.1
North Carolina	2 0.17	3.3	5.8	5.7	1.2	0.2	0.2
North Dakota	(1)	5.2	5.1	4.4	1.1	0.2	0.1
Ohio	(1)	9.1	8.0	5.0	1.3	0.3	0.2
Oklahoma	2 6 0.12	2.8	4.5	3.3	0.7	0.2	0.2
Oregon	2 0.13	2.6	5.0	5.2	1.1	0.3	0.2
Pennsylvania	2 0.15	2.4	5.6	3.9	1.0	0.2	0.1
Rhode Island	2 0.13	2.5	4.9	4.6	1.1	0.2	0.1
South Carolina	2 0.14	4.5	4.3	4.2	1.0	0.2	0.2
South Dakota	2 0.16	3.4	5.3	3.7	1.0	0.2	0.2
Tennessee	(1)	16.8	5.5	5.8	1.2	0.2	0.2
Texas	2 6 0.19	3.0	7.3	4.7	1.1	0.3	0.2
Utah	2 0.16	2.8	10.7	5.6	1.2	0.4	0.4
Vermont	(1)	(1)	7.3	5.3	1.4	0.3	0.1
Virginia	2 0.12	2.8	4.2	3.8	0.9	0.2	0.1
Washington	2 0.11	1.1	3.6	3.5	0.6	0.2	0.1
West Virginia	(1)	(1)	6.9	4.4	1.2	0.2	0.2
Wisconsin	2 0.14	3.6	5.2	5.5	1.2	0.2	0.1
Wyoming	2 0.14	2.7	8.1	5.3	1.3	0.3	0.3
Puerto Rico	(1)	2.6	3.9	2.3	0.6	0.2	0.2

<sup>1</sup> Station not in operation. <sup>2</sup> Less than value shown. <sup>3</sup> 3 stations. <sup>4</sup> 10 stations.

<sup>5</sup> 9 stations. <sup>6</sup> 2 stations. <sup>7</sup> Average for 7 to 11 months. <sup>8</sup> Average for 6 months or less.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Radiological Health Data and Reports Monthly*.

**No. 259. SUSPENDED PARTICULATE MATTER LEVELS, BY NONURBAN TOPOGRAPHIC CLASS: CUMULATIVE AVERAGE, 1957-65 AND 1966**

[In micrograms per cubic meter. Based on 6,691 air samples taken at nonurban locations. See headnote, table 257]

TOPOGRAPHIC CLASS	NUMBER OF STATIONS		SUSPENDED PARTICULATE MATTER			BENZENE-SOLUBLE ORGANIC MATTER <sup>1</sup>		
	1957-65	1966	Average, 1957-65 <sup>2</sup>	1966			Average, 1957-65	1966 average <sup>2</sup>
				Min.	Max.	Avg.		
United States.....	151	30	34	1	287	38	1.8	2.2
Atlantic coast.....	5	2	36	9	122	46	1.9	1.5
Desert.....	4	2	24	1	98	22	1.3	1.8
Farmland.....	12	10	43	4	287	45	2.3	2.9
Forest.....	7	5	28	1	246	33	1.6	1.9
Great Lakes coast.....	5	1	39	8	88	31	1.7	1.3
Gulf coast.....	4	2	33	12	290	38	2.1	2.8
Mountain.....	9	6	28	1	117	27	1.5	1.7
Pacific coast.....	5	2	50	16	188	61	2.3	2.1

<sup>1</sup> Particulate matter soluble in benzene. <sup>2</sup> Based on quarterly composite samples.

<sup>3</sup> Data for all stations not available for all years.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Air Pollution Measurements of the National Air Sampling Network, 1957-1961*, annual report, *Air Quality Data*, and unpublished data.

**No. 260. BETA RADIOACTIVITY CONCENTRATIONS IN AIR, BY MONTH: 1963 TO 1966**

[In micromicrocuries per cubic meter]

MONTH	1963			1964			1965			1966		
	Minimum	Maximum	Average									
January.....	1.0	35	7.1	1.0	4.7	0.9	1.0	1.8	0.2	1.0	0.2	1.0
February.....	1.0	28	6.1	1.0	5.2	1.1	1.0	2.8	0.3	1.0	0.5	1.0
March.....	1.0	24	5.5	1.0	473.0	1.6	1.0	1.3	0.3	1.0	0.5	0.1
April.....	1.0	31	7.2	1.0	7.8	1.6	1.0	197.0	0.4	1.0	19.0	0.1
May.....	1.0	29	6.4	1.0	8.4	2.0	1.0	17.4	0.4	1.0	14.9	0.4
June.....	1.0	29	6.1	1.0	6.6	1.6	1.0	9.5	0.6	1.0	2.3	0.3
July.....	1.0	17	4.2	1.0	4.5	0.9	1.0	1.1	0.2	1.0	1.7	0.1
August.....	1.0	13	3.1	1.0	3.5	0.5	1.0	0.4	0.1	1.0	0.3	1.0
September.....	1.0	8.0	1.8	1.0	1.6	0.4	1.0	0.3	1.0	1.0	0.4	1.0
October.....	1.0	5.4	1.6	1.0	20.2	0.8	1.0	0.3	1.0	1.0	0.3	1.0
November.....	1.0	6.6	1.0	1.0	3.6	0.5	1.0	0.3	1.0	1.0	28.7	0.4
December.....	1.0	4.4	0.9	1.0	1.1	0.2	1.0	0.3	1.0	1.0	0.6	1.0

<sup>1</sup> Less than value shown.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Radiological Health Data*. Monthly.

**No. 261. GASEOUS AIR POLLUTANT LEVELS, SELECTED CITIES: 1967**

[Concentration in parts per million. Concentrations of gaseous contaminants are continuously measured in the indicated cities in order to provide basic data on the nature and extent of urban area pollution]

CITY	Maxi-	Mini-	Maxi-	Yearly	Maxi-	Mini-	Maxi-	Yearly	Maxi-	Mini-	Maxi-	Yearly
	mu-	mu-	mu-	aver-	mu-	mu-	mu-	aver-	mu-	mu-	mu-	aver-
SULFUR DIOXIDE												
Chicago.....	0.65	0.04	0.27	0.12	0.19	0.06	0.10	0.08	0.12	0.03	0.07	0.05
Cincinnati.....	0.07	0.02	0.08	0.02	0.36	0.02	0.06	0.08	0.07	0.03	0.04	0.03
Philadelphia.....	0.33	0.07	0.13	0.10	0.36	0.03	0.12	0.06	0.09	0.03	0.05	0.04
Denver.....	0.07	0.00	0.03	0.01	0.13	0.02	0.06	0.04	0.09	0.02	0.05	0.04
St. Louis.....	0.21	0.01	0.05	0.03	0.12	0.02	0.05	0.03	0.06	0.02	0.03	0.02
Washington, D.C....	0.13	0.02	0.08	0.04	0.36	0.02	0.10	0.05	0.09	0.03	0.05	0.04
CARBON MONOXIDE												
Chicago.....	23	6	11	9	0.08	0.01	0.04	0.03	0.52	2.6	3.6	3.0
Cincinnati.....	13	2	8	5	0.09	0.02	0.05	0.03	0.6	2.2	2.9	2.5
Philadelphia.....	15	3	9	6	0.08	0.02	0.05	0.03	0.6	2.1	2.8	2.4
Denver.....	20	5	11	8	0.09	0.02	0.03	0.02	0.5	2.0	3.4	2.5
St. Louis.....	11	4	8	6	0.09	0.02	0.05	0.03	0.8	2.1	4.2	3.1
Washington, D.C....	15	3	7	5	0.11	0.01	0.04	0.02	0.6	2.1	3.4	2.5
TOTAL OXIDANTS												
Chicago.....												
Cincinnati.....												
Philadelphia.....												
Denver.....												
St. Louis.....												
Washington, D.C....												
TOTAL HYDROCARBONS												

Source: Dept. of Health, Education, and Welfare, Public Health Service; unpublished data.

## Area, Geography, and Climate

## No. 262. AIR POLLUTION—NATIONAL AIR SAMPLING LEVELS, SELECTED CITIES: 1966

[Air pollution is defined as the presence in the air of substances put there by the activities of man, in concentrations sufficient to interfere with comfort, safety, or health or with use and enjoyment of property. Data represent values of samples taken nationally on a biweekly basis by the National Center for Air Pollution Control. See text, p. 164.]

STATION	SUSPENDED PARTICULATE MATTER <sup>1</sup> (micrograms per cubic meter)			BENZENE-SOLUBLE ORGANIC MATTER <sup>2</sup> (micrograms per cubic meter)			RADIOACTIVITY <sup>3</sup> (micromicrocuries per cubic meter)			
	Min.	Max.	Arith. avg.	Min.	Max.	Arith. avg.	Min.	Max.	Arith. avg.	
Alabama.....	Birmingham.....	53	329	142	6.1	14.0	10.0	0.1	0.7	0.2
Arizona.....	Phoenix.....	28	297	152	4.9	19.6	11.9	0.1	7.4	0.5
California.....	Los Angeles.....	41	233	119	7.6	26.0	15.2	(Z)	4.6	0.3
	Oakland.....	46	270	94	4.7	11.5	8.3	0.1	0.4	0.2
	San Diego.....	21	173	69	2.8	12.0	7.1	0.1	2.2	0.2
	San Francisco.....	30	256	68	3.8	8.2	6.0	(Z)	0.4	0.1
Colorado.....	Denver.....	59	230	126	5.7	14.7	10.0	(Z)	1.5	0.3
Connecticut.....	Hartford.....	38	188	90	3.9	9.0	6.4	(Z)	0.5	0.2
Delaware.....	New Haven.....	48	276	110	5.4	9.8	7.6	(Z)	0.4	0.2
Dist. of Columbia.....	Wilmington.....	24	249	124	6.8	11.1	8.9	(Z)	1.8	0.2
Florida.....	Washington.....	38	216	77	2.6	9.5	6.0	(Z)	0.6	0.2
Georgia.....	Miami.....	24	100	49	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	Atlanta.....	34	189	97	6.3	9.0	7.4	(Z)	1.0	0.3
Hawaii.....	Honolulu.....	22	74	35	2.2	3.9	2.8	(Z)	1.8	0.2
Idaho.....	Bolse.....	32	156	98	5.1	9.3	7.1	0.1	0.6	0.2
Illinois.....	Chicago.....	56	273	124	4.6	10.2	7.3	(Z)	3.1	0.3
Indiana.....	Indianapolis.....	82	283	154	10.7	15.1	12.7	0.1	2.8	0.3
Iowa.....	Des Moines.....	36	242	123	5.5	8.7	7.6	0.1	2.1	0.2
Kansas.....	Wichita.....	24	221	94	1.2	7.5	3.8	0.1	0.6	0.2
Kentucky.....	Louisville.....	27	332	148	4.7	8.3	7.1	(Z)	0.7	0.2
Louisiana.....	New Orleans.....	45	401	93	5.2	8.9	7.2	0.1	1.4	0.3
Maryland.....	Baltimore.....	70	296	144	4.0	15.7	9.2	(Z)	0.5	0.2
Michigan.....	Detroit.....	45	294	137	3.7	9.2	7.4	(Z)	3.4	0.5
Minnesota.....	Minneapolis.....	20	130	87	4.5	5.6	5.0	(Z)	0.5	0.2
	St. Paul.....	43	205	101	5.9	10.2	7.6	(Z)	0.4	0.2
Mississippi.....	Jackson.....	20	113	65	2.7	9.6	5.3	(Z)	1.9	0.3
Missouri.....	Kansas City.....	66	196	116	4.2	8.7	5.7	0.1	3.9	0.3
Montana.....	St. Louis.....	51	255	143	5.6	10.3	7.8	0.1	5.1	0.4
Nebraska.....	Helena.....	17	122	53	1.2	4.2	3.2	(Z)	1.1	0.2
Nevada.....	Omaha.....	50	225	125	5.1	8.4	6.2	0.1	0.4	0.2
Nevada.....	Las Vegas.....	60	158	99	5.5	9.4	7.6	0.1	5.9	0.4
New Hampshire.....	Concord.....	13	92	40	2.1	3.0	2.6	(Z)	0.8	0.2
New Jersey.....	Newark.....	48	179	96	4.3	9.7	6.9	(Z)	0.4	0.1
New York.....	New York.....	68	252	134	7.5	14.0	10.3	(Z)	4.1	0.3
North Carolina.....	Rochester.....	46	244	106	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
North Dakota.....	Charlotte.....	50	353	126	4.7	18.5	11.2	(Z)	0.8	0.2
Ohio.....	Bismarck.....	20	156	75	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oklahoma.....	Cincinnati.....	56	399	154	9.4	7.1	7.9	(Z)	3.9	0.4
	Cleveland.....	43	227	116	5.8	8.0	6.8	(Z)	0.3	0.2
	Columbus.....	43	253	124	4.7	8.9	7.4	(Z)	3.6	0.3
Oregon.....	Oklahoma City.....	49	510	107	3.2	9.4	6.0	0.1	3.5	0.4
Peninsylvania.....	Portland.....	25	174	75	2.7	9.5	6.1	(Z)	10.4	0.6
	Philadelphia.....	92	281	154	5.3	11.0	8.1	(Z)	0.6	0.2
	Pittsburgh.....	80	309	151	4.8	9.7	7.1	(Z)	0.9	0.2
Rhode Island.....	Providence.....	59	268	121	3.6	16.5	9.9	0.1	0.7	0.2
South Dakota.....	Sioux Falls.....	27	96	61	0.6	3.4	2.1	(Z)	1.8	0.2
Tennessee.....	Memphis.....	40	281	115	4.3	11.7	7.3	0.1	4.8	0.4
	Nashville.....	31	271	115	4.1	12.8	7.9	(Z)	0.5	0.2
Texas.....	Dallas.....	42	390	101	4.8	14.5	8.0	0.1	0.8	0.2
	Houston.....	49	295	102	3.2	6.3	4.6	(Z)	1.0	0.2
	San Antonio.....	30	148	73	1.9	7.5	4.2	(Z)	1.7	0.2
Utah.....	Salt Lake City.....	42	172	93	0.6	3.2	3.0	0.1	1.9	0.3
Vermont.....	Burlington.....	28	207	77	1.3	4.4	2.8	(Z)	0.9	0.2
Virginia.....	Norfolk.....	38	157	79	1.3	10.0	5.4	(Z)	0.4	0.1
Washington.....	Seattle.....	47	181	76	4.3	11.3	7.5	(Z)	0.4	0.1
West Virginia.....	Charleston.....	55	684	226	2.1	10.0	5.5	0.1	1.0	0.3
Wisconsin.....	Milwaukee.....	44	391	150	2.9	7.6	5.9	0.1	3.5	0.3
Wyoming.....	Cheyenne.....	14	379	48	0.6	3.3	2.0	0.1	1.1	0.3
Puerto Rico.....	San Juan.....	41	169	82	1.8	6.4	4.2	(Z)	1.6	0.2

NA. Not available. Z. Less than 0.05 micromicrocuries per cubic meter.

<sup>1</sup> For definition, see headnote, table 257.

<sup>2</sup> Particulate matter soluble in benzene; based on quarterly composite samples.

<sup>3</sup> Radioactivity associated with suspended particulate matter as measured by Beta radiation.

Source: Dept. of Health, Education, and Welfare, Public Health Service; annual report, *Air Quality Data, 1966*.

No. 263. GROUND ELEVATION OF WEATHER STATIONS AND OCCURRENCE OF FREEZE—  
SELECTED CITIES

[Date of freeze based on 30-year period, 1921–1950, except as indicated]

STATION	Ground elevation (feet)	OCCURRENCE OF FREEZE, 32° F.				Mean number of days minimum temperature 32° F. or less	Length of record (yrs.) <sup>1</sup>		
		Spring date		Fall date					
		Mean	Latest	Mean	Earliest				
Ala. Mobile	10	Feb. 17	Mar. 20	Dec. 12	Nov. 15	18	20		
Alaska Juneau	15	Apr. 27	June 8	Oct. 19	Sept. 22	147	23		
Ariz. Phoenix <sup>3</sup>	1,083	Feb. 2	Mar. 14	Dec. 6	Nov. 5	17	6		
Ark. Little Rock	257	Mar. 16	Apr. 13	Nov. 15	Oct. 23	65	6		
Calif. Los Angeles <sup>3</sup>	312	Jan. 1	Jan. 21	Dec. 30	Dec. 9	—	7		
Sacramento <sup>3</sup>	25	Feb. 2	Apr. 8	Dec. 7	Nov. 4	20	6		
San Francisco <sup>3</sup>	52	Jan. 17	Mar. 3	Dec. 22	Nov. 25	6	24		
Colo. Denver	5,221	May 2	May 28	Oct. 14	Sept. 18	160	6		
Conn. Hartford	169	Apr. 22	May 10	Oct. 19	Sept. 27	140	7		
Del. Wilmington	73	Apr. 18	May 9	Oct. 26	Sept. 27	104	19		
D.C. Washington	72	Apr. 10	May 12	Oct. 28	Oct. 2	81	6		
Fla. Jacksonville	18	Feb. 6	May 14	Dec. 16	Nov. 9	12	25		
Miami	8	(4)	Feb. 6	(4)	(4)	—	219		
Ga. Atlanta	1,054	Mar. 20	Apr. 15	Nov. 19	Oct. 24	58	6		
Hawaii Honolulu	12	(4)	(4)	(4)	(4)	(4)	239		
Idaho Boise	2,842	Apr. 20	May 23	Oct. 16	Sept. 20	128	27		
Ill. Chicago	610	Apr. 19	May 13	Oct. 28	Sept. 25	123	219		
Ind. Peoria	654	Apr. 22	May 25	Oct. 16	Sept. 29	134	7		
Iowa Des Moines <sup>3</sup>	718	Apr. 17	May 11	Oct. 27	Oct. 1	123	7		
Kans. Wichita	807	Apr. 19	May 11	Oct. 22	Sept. 28	140	5		
Ky. Louisville	1,321	Apr. 5	Apr. 21	Nov. 1	Sept. 27	112	13		
La. New Orleans	457	Apr. 1	Apr. 19	Nov. 7	Oct. 15	98	6		
Maine Portland	61	Apr. 20	May 30	Oct. 15	Sept. 17	162	26		
Md. Baltimore	146	Mar. 28	Apr. 16	Nov. 17	Oct. 20	103	16		
Mass. Boston	15	Apr. 16	May 19	Oct. 25	Sept. 26	94	10		
Mich. Detroit <sup>3</sup>	619	Apr. 24	May 12	Oct. 22	Sept. 29	125	33		
Minn. Sault Ste. Marie <sup>3</sup>	721	May 10	June 8	Sept. 28	Aug. 22	178	25		
Minn. Duluth	1,162	May 13	June 1	Oct. 3	Sept. 13	186	5		
Minn. Minneapolis	830	Apr. 30	May 24	Oct. 13	Sept. 18	161	7		
Miss. Jackson	305	Mar. 10	Apr. 13	Nov. 13	Oct. 17	44	26		
Mo. Kansas City	741	Apr. 5	Apr. 17	Oct. 31	Oct. 6	98	6		
Mo. St. Louis	465	Apr. 2	May 2	Nov. 8	Oct. 14	108	6		
Mont. Great Falls	3,664	May 14	June 8	Sept. 26	Sept. 7	147	5		
Nebr. Omaha	978	Apr. 14	May 11	Oct. 19	Sept. 24	140	27		
Nev. Reno	4,397	May 14	June 25	Oct. 2	Aug. 30	189	219		
N.H. Concord	339	May 11	May 26	Sept. 30	Sept. 13	169	23		
N.J. Atlantic City <sup>3</sup>	8	Mar. 31	Apr. 13	Nov. 11	Oct. 22	92	218		
N. Mex. Albuquerque	5,310	Apr. 16	May 18	Oct. 29	Oct. 11	117	6		
N.Y. Albany	19	Apr. 27	May 20	Oct. 13	Sept. 23	146	18		
N.Y. Buffalo	693	Apr. 30	May 24	Oct. 25	Sept. 23	140	6		
N.C. New York	10	Apr. 7	Apr. 24	Nov. 12	Oct. 19	81	53		
N.C. Charlotte	727	Mar. 21	Apr. 16	Nov. 15	Oct. 15	72	6		
N. Dak. Raleigh	400	Mar. 24	Apr. 20	Nov. 16	Oct. 29	73	217		
N. Dak. Bismarck	1,650	May 11	May 30	Sept. 24	Sept. 6	186	7		
Ohio Cincinnati	761	Apr. 15	May 25	Oct. 25	Sept. 28	98	51		
Ohio Cleveland	787	Apr. 21	May 14	Nov. 2	Sept. 29	130	6		
Ohio Columbus	815	Apr. 17	May 9	Oct. 30	Oct. 7	126	7		
Okl. Oklahoma City	1,254	Mar. 28	Apr. 17	Nov. 7	Oct. 23	85	10		
Oreg. Portland <sup>3</sup>	30	Feb. 22	May 2	Dec. 3	Oct. 30	45	26		
Pa. Philadelphia	26	Mar. 30	Apr. 20	Nov. 17	Oct. 19	111	7		
R.I. Pittsburgh	749	Apr. 16	May 4	Nov. 3	Oct. 10	128	7		
R.I. Providence	55	Apr. 13	Apr. 24	Oct. 27	Oct. 3	120	28		
S.C. Columbia	217	Mar. 14	Apr. 13	Nov. 21	Nov. 1	55	19		
S. Dak. Sioux Falls	1,420	May 5	May 29	Oct. 3	Sept. 12	160	216		
Tenn. Memphis	263	Mar. 20	Apr. 15	Nov. 12	Oct. 17	59	25		
Tenn. Nashville	577	Mar. 28	Apr. 19	Nov. 7	Oct. 17	75	23		
Tex. Dallas	487	Mar. 18	Apr. 15	Nov. 22	Oct. 27	40	7		
Tex. El Paso	3,920	Mar. 13	Apr. 11	Nov. 11	Oct. 31	68	6		
Utah Houston	41	Feb. 5	Mar. 26	Dec. 11	Oct. 25	14	6		
Utah Salt Lake City	4,260	Apr. 12	Apr. 30	Nov. 1	Sept. 25	141	7		
Vt. Burlington	331	May 8	May 23	Oct. 3	Sept. 13	156	218		
Va. Norfolk	26	Mar. 18	Apr. 14	Nov. 27	Nov. 7	55	18		
Va. Richmond	162	Apr. 2	Apr. 20	Nov. 8	Oct. 21	85	37		
Wash. Seattle <sup>3</sup>	14	Feb. 23	Apr. 2	Nov. 30	Oct. 19	35	7		
Wash. Spokane <sup>3</sup>	2,367	Apr. 21	May 14	Oct. 8	Sept. 19	138	7		
W. Va. Charleston	950	Apr. 18	May 11	Oct. 28	Sept. 20	99	19		
Wis. Milwaukee	672	Apr. 20	May 9	Oct. 25	Sept. 24	149	6		
Wyo. Cheyenne	6,131	May 20	June 18	Sept. 27	Sept. 5	170	7		
P.R. San Juan	47	(4)	(4)	(4)	(4)	(4)	11		

<sup>1</sup> Represents zero. <sup>2</sup> Period ending in 1966, except as otherwise noted.

<sup>2</sup> Period ending in 1961. <sup>3</sup> Period of record 1931–60.

<sup>4</sup> When the frequency of occurrence in either spring or fall is 1 year in 10, or less, mean dates are not given.

<sup>5</sup> 32° F. has never been recorded.

## No. 264. NORMAL MONTHLY AVERAGE TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960.  
See *Historical Statistics, Colonial Times to 1967*, series J 109-135 and J 163-265, for related data]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An- nual
Ala.... Mobile	53.0	55.2	60.3	67.6	75.6	81.5	82.6	82.1	77.9	69.9	58.9	54.1	68.2
Alaska.... Juneau	25.1	26.8	30.4	38.0	45.6	52.3	55.3	54.1	48.9	41.6	34.3	28.4	40.1
Ariz.... Phoenix	49.7	53.5	59.0	67.2	75.0	83.0	89.8	87.5	82.8	70.7	58.1	51.6	69.0
Ark.... Little Rock	40.6	44.4	51.8	62.4	70.5	78.9	81.9	81.3	74.3	63.1	49.5	41.9	61.7
Calif.... Los Angeles	54.4	55.2	57.0	59.4	62.0	64.8	69.1	69.1	68.5	64.9	61.1	56.9	61.9
Sacramento	45.2	49.2	53.4	58.4	64.0	70.5	75.4	74.1	71.6	63.5	52.9	46.4	60.4
San Francisco	50.7	53.0	54.7	55.7	57.4	59.1	58.8	59.4	62.0	61.4	57.4	52.5	56.8
Colo.... Denver	28.5	31.3	36.4	46.4	56.2	66.5	72.9	71.5	63.0	51.4	37.7	31.6	49.5
Conn.... Hartford	26.0	27.1	36.0	48.5	59.9	68.7	73.4	71.2	63.3	53.0	41.3	28.9	49.8
Del.... Wilmington	33.4	38.8	41.3	52.1	62.7	71.4	76.0	74.3	67.6	56.6	45.4	35.1	54.1
D.C.... Washington	36.9	37.8	44.8	55.7	65.8	74.2	78.2	76.5	69.7	59.0	47.7	38.1	57.0
Fla.... Jacksonville	55.9	57.5	62.2	68.7	75.8	80.8	82.6	82.3	79.4	71.0	61.7	56.1	69.5
Miami	66.9	67.9	70.5	74.2	77.6	80.8	81.8	82.3	81.3	77.8	72.4	68.1	75.1
Ga.... Atlanta	44.7	46.1	51.4	60.2	69.1	76.6	78.9	78.2	73.1	62.4	51.2	44.8	61.4
Hawaii.... Honolulu	72.5	72.4	72.8	74.2	75.9	77.9	78.8	79.4	79.2	78.2	76.9	73.6	76.9
Idaho.... Boise	29.1	34.5	41.7	50.4	58.2	65.8	75.2	72.1	62.7	51.6	38.6	32.2	51.0
Ill.... Chicago	28.0	27.7	36.3	49.0	60.0	70.5	75.6	74.2	66.1	55.1	39.9	29.1	50.8
Ind.... Peoria	25.7	28.4	37.6	50.8	61.5	71.7	76.0	74.3	66.4	55.3	39.7	29.1	51.4
Ind.... Indianapolis	29.1	31.1	38.9	48.7	61.4	71.1	75.2	73.7	66.5	55.4	40.9	31.1	52.1
Iowa.... Des Moines	19.9	23.4	33.8	48.7	60.6	71.0	76.3	74.1	65.4	54.2	37.1	25.3	49.2
Kans.... Wichita	32.0	36.3	44.5	56.7	66.0	76.5	80.9	80.8	71.3	58.9	44.4	35.8	57.1
Ky.... Louisville	35.0	35.8	43.3	54.8	64.4	73.4	77.6	76.2	69.5	57.9	44.7	36.3	55.7
La.... New Orleans	54.6	57.1	61.4	67.9	74.4	80.1	81.6	81.9	78.3	70.4	60.0	55.4	68.6
Maine.... Portland	21.8	22.8	31.4	42.5	53.0	62.1	68.1	66.8	58.7	48.6	38.1	25.8	45.0
Md.... Baltimore	34.8	35.7	43.1	54.2	64.4	72.5	76.8	75.0	68.1	57.0	45.5	35.8	55.2
Mass.... Boston	29.9	30.8	37.7	47.9	58.8	67.8	73.7	71.7	65.3	55.0	44.9	33.3	51.4
Mich.... Detroit	26.9	27.2	34.8	47.6	59.0	69.7	74.4	72.8	65.1	53.8	40.4	29.9	50.1
Minn.... St. Paul	15.8	15.7	23.8	38.0	49.6	59.0	64.6	64.0	55.8	46.3	33.3	20.9	40.6
Minn.... Duluth	8.7	10.8	21.3	37.0	49.2	58.8	65.5	63.8	54.2	44.6	27.3	14.0	37.9
Minn.... Minneapolis	12.4	15.7	27.4	44.3	57.3	66.8	72.3	70.0	60.4	48.9	31.2	18.1	43.7
Miss.... Jackson	47.9	50.5	56.5	64.9	73.1	79.8	82.3	82.0	76.5	67.0	55.5	49.4	65.5
Mo.... Kansas City	31.7	35.8	43.3	55.7	65.6	75.9	81.5	79.8	71.3	60.2	44.6	35.8	56.8
Mo.... St. Louis	31.9	34.7	42.6	54.0	64.2	74.1	78.1	76.8	69.5	58.4	44.1	34.8	55.3
Mont.... Great Falls	22.1	23.8	30.7	43.6	53.0	59.9	69.4	66.8	57.4	47.5	34.3	27.3	44.7
Nebr.... Omaha	22.3	26.5	36.9	51.7	63.0	73.1	78.5	76.2	66.9	55.7	38.9	28.2	51.5
Nev.... Reno	30.4	35.6	41.5	48.0	53.9	60.1	67.7	65.5	58.8	49.2	38.3	31.9	48.4
N.H.... Concord	21.2	22.7	31.7	43.8	55.5	64.5	69.6	67.4	59.3	48.7	37.8	25.0	45.6
N.J.... Atlantic City	34.8	34.7	41.1	51.0	61.3	70.0	75.1	73.7	67.2	57.2	46.7	36.6	54.1
N.Mex.... Albuquerque	35.0	39.9	45.8	55.7	65.1	74.9	78.5	76.2	70.0	58.0	43.6	37.0	56.6
N.Y.... Albany	22.7	23.7	33.0	46.2	57.9	67.3	72.1	70.0	61.6	50.8	39.1	26.5	47.6
N.Y.... Buffalo	24.5	24.1	31.5	43.5	54.5	64.8	68.4	68.8	61.4	50.8	39.1	27.7	46.7
N.Y.... New York	32.2	33.4	40.5	51.4	62.4	71.4	76.8	75.1	68.5	58.3	47.0	35.9	54.5
N.C.... Charlotte	42.7	44.2	50.0	60.3	69.0	77.1	79.2	78.7	72.9	62.5	50.4	42.7	60.8
N.C.... Raleigh	41.6	43.0	49.5	59.3	67.6	75.1	77.9	76.9	71.2	60.5	50.0	41.9	59.5
N.Dak.... Bismarck	9.9	13.5	26.2	43.5	55.9	64.5	71.7	69.3	58.7	46.7	28.9	17.8	42.2
Ohio.... Cincinnati	35.5	38.8	44.3	55.7	65.8	75.3	78.8	77.4	70.6	59.5	46.4	37.2	56.9
Ohio.... Cleveland	27.6	28.6	35.4	46.6	57.5	67.2	71.5	69.9	63.4	52.8	40.4	29.9	49.2
Ohio.... Columbus	29.9	31.1	38.9	50.8	61.5	70.8	74.8	73.2	65.9	54.2	41.2	31.5	52.0
Oklahoma.... Oklahoma City	37.0	41.3	48.5	53.9	64.8	73.0	82.5	82.8	73.8	62.9	48.4	40.3	60.3
Oreg.... Portland	38.4	42.0	46.1	51.8	57.4	62.0	67.2	66.6	62.2	54.2	45.1	41.3	52.9
Pa.... Philadelphia	32.3	33.2	41.0	52.0	62.6	71.0	75.6	73.6	66.7	55.7	44.3	33.9	53.5
Pa.... Pittsburgh	28.9	29.2	36.8	49.0	59.8	68.4	72.1	70.8	64.2	53.1	40.8	30.7	50.3
R.I.... Providence	28.2	29.7	37.0	47.2	57.5	66.2	72.1	70.5	63.2	53.2	43.0	32.0	50.1
S.C.... Columbia	40.9	48.4	54.4	63.6	72.2	79.7	81.6	80.5	75.3	64.7	53.7	46.4	64.0
S. Dak.... Sioux Falls	15.2	19.1	30.1	45.9	58.3	68.1	74.3	71.8	61.8	50.3	32.6	21.1	45.7
Tenn.... Memphis	41.5	44.1	51.1	61.4	70.3	78.5	81.3	80.8	73.9	63.1	50.1	42.5	61.5
Tenn.... Nashville	38.9	42.0	49.1	59.6	68.6	77.4	80.2	79.2	72.8	61.5	48.5	41.4	60.0
Tex.... Dallas	45.9	49.5	56.1	65.0	72.9	81.3	84.9	85.0	77.9	67.8	54.9	48.1	65.8
Tex.... El Paso	42.9	49.1	54.9	63.4	71.9	81.0	81.9	80.4	74.5	64.4	51.2	44.1	63.3
Tex.... Houston	53.6	55.8	61.3	68.5	76.0	81.6	83.0	83.2	79.2	71.4	60.8	55.7	69.2
Utah.... Salt Lake City	27.2	32.5	40.4	49.9	58.9	67.4	76.9	74.5	64.4	51.7	36.7	30.1	50.9
Vt.... Burlington	16.2	17.4	26.7	41.2	53.8	64.2	69.0	66.7	58.4	47.6	35.3	21.5	43.2
Va.... Norfolk	41.2	41.6	48.0	58.0	67.5	75.6	78.8	77.5	72.6	62.0	51.4	42.5	59.7
Va.... Richmond	38.7	39.9	47.7	58.1	67.0	75.1	78.1	76.0	70.2	58.7	48.5	39.7	58.1
Wash.... Seattle-Tacoma	38.3	40.8	43.8	49.2	55.5	59.8	64.9	64.1	59.9	52.4	43.9	40.8	51.1
Wash.... Spokane	25.3	30.0	38.1	47.3	56.2	61.9	70.5	68.0	60.9	49.1	35.7	30.1	47.8
W. Va.... Charleston	36.6	37.5	44.4	55.3	64.8	72.0	74.9	73.8	68.2	57.3	45.3	37.1	55.6
Wis.... Milwaukee	20.6	22.4	31.0	43.6	53.4	63.3	68.7	67.8	60.3	50.0	35.8	24.8	45.1
Wyo.... Cheyenne	25.4	27.3	32.4	42.2	52.9	63.0	70.0	67.7	58.6	47.5	34.2	29.5	45.9
P.R.... San Juan	74.4	74.4	75.3	76.6	78.7	80.0	80.4	80.9	80.5	80.0	78.2	76.2	78.0

<sup>1</sup> City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; *Local Climatological Data*.  
Monthly with annual summary.

## No. 265. NORMAL MONTHLY MAXIMUM TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
Ala.--- Mobile	62.3	64.7	70.3	77.5	85.9	91.4	92.0	91.2	87.4	80.3	69.6	63.9	78.0
Alaska.--- Juneau	30.1	32.1	36.5	45.4	53.6	60.8	62.7	61.5	55.2	46.5	39.2	32.7	46.4
Ariz.--- Phoenix	64.0	68.1	75.0	83.9	92.9	101.6	104.6	101.6	98.2	96.7	73.7	66.1	84.7
Ark.--- Little Rock	50.6	54.6	62.7	73.5	81.5	89.7	92.7	92.4	86.3	76.0	61.3	52.1	72.8
Calif.--- Los Angeles	63.8	63.7	65.0	66.9	68.7	71.1	75.9	75.4	76.8	73.0	71.0	66.5	69.7
Sacramento	53.2	56.8	64.8	78.2	86.5	93.4	91.9	88.2	77.6	71.0	54.6	54.6	73.6
San Francisco	55.8	58.6	60.7	61.9	63.4	65.0	64.3	64.9	68.9	68.3	63.7	57.5	62.8
Colo.--- Denver	42.1	44.6	49.9	60.5	70.5	82.0	88.4	86.8	79.0	66.6	51.7	45.2	63.9
Conn.--- Hartford	34.7	36.0	45.3	59.6	72.0	80.5	85.0	82.7	74.7	64.8	50.9	37.6	60.3
Del.--- Wilmington	41.3	42.4	50.5	62.5	73.4	81.8	86.2	82.4	77.9	67.3	55.1	43.5	63.8
D.C.--- Washington	44.3	46.1	53.8	65.8	75.5	83.4	87.0	86.0	78.6	68.3	56.5	45.6	65.8
Fla.--- Jacksonville	66.8	68.5	73.3	79.6	86.4	90.5	92.0	91.4	87.6	80.2	72.2	66.7	79.6
Miami	75.8	77.0	79.8	82.6	85.4	88.0	88.8	80.7	88.0	84.7	80.2	77.1	83.1
Ga.--- Atlanta	52.0	53.7	60.3	70.1	78.9	85.7	87.0	86.6	81.8	72.4	60.9	52.4	70.2
Hawai.--- Honolulu	79.1	78.8	79.2	80.2	81.8	83.8	84.6	84.9	85.2	84.2	82.0	79.2	81.9
Idaho.--- Boise	36.1	42.4	51.5	62.3	71.9	80.5	91.4	88.7	79.8	65.3	48.4	39.4	63.1
Ill.--- Chicago	33.0	34.7	43.5	57.4	69.1	79.5	84.1	82.4	74.8	63.4	47.1	35.7	58.7
Peoria	33.7	36.6	46.7	61.2	72.3	82.3	87.0	86.1	77.8	66.5	48.6	36.8	61.2
Ind.--- Indianapolis	37.1	39.4	48.1	61.2	72.0	81.8	86.0	84.7	78.0	66.8	50.0	39.0	62.0
Iowa.--- Des Moines	28.5	32.2	42.9	59.4	71.4	81.3	87.3	84.7	76.9	65.7	46.5	33.5	59.2
Kans.--- Wichita	41.6	47.0	55.9	68.2	77.1	87.7	92.4	92.8	83.7	71.7	55.1	44.9	68.2
Ky.--- Louisville	43.5	45.6	53.8	66.4	76.2	85.0	88.5	87.3	81.3	69.6	54.4	44.7	66.4
La.--- New Orleans	64.4	66.7	71.2	77.7	84.4	89.6	90.6	90.7	87.2	80.3	70.3	65.3	78.2
Maine.--- Portland	31.8	33.5	40.7	52.5	64.2	73.1	79.5	78.4	70.2	59.8	47.6	35.3	55.6
Md.--- Baltimore	44.2	45.5	53.6	65.8	75.9	83.5	87.2	86.0	78.6	68.4	56.5	45.7	65.8
Mass.--- Boston	36.8	37.4	44.6	55.7	67.5	76.3	81.9	80.0	73.4	62.7	51.9	40.1	59.0
Mich.--- Detroit	33.0	33.9	42.3	56.4	68.6	79.1	83.9	81.9	74.2	62.8	47.1	35.7	58.2
Minn.--- Duluth	17.9	21.4	31.1	47.1	60.6	70.3	77.1	74.6	64.7	54.5	35.1	22.3	48.1
Minneapolis	22.4	26.3	37.2	55.7	69.1	78.1	83.9	81.3	72.2	60.6	40.5	27.4	54.6
Miss.--- Jackson	58.3	61.6	68.6	77.2	85.2	91.2	92.9	93.1	88.3	79.6	67.5	59.9	77.0
Mo.--- Kansas City	39.9	44.8	52.6	65.6	75.1	85.2	91.1	90.3	82.7	71.6	54.5	43.7	66.5
N.J.--- Atlantic City	42.9	43.3	49.7	60.3	71.0	79.2	83.8	82.2	76.0	66.5	55.5	45.1	63.0
N.Mex.--- Albuquerque	46.4	52.2	58.8	69.1	78.3	88.6	91.2	88.0	82.3	70.7	56.1	48.3	69.2
N.Y.--- Albany	31.0	32.5	41.9	56.7	69.5	78.7	83.7	81.4	72.9	51.8	47.5	34.5	57.7
Buffalo	30.8	31.0	38.6	52.9	65.5	75.1	80.1	78.6	71.5	60.1	46.5	34.3	55.4
New York	39.5	40.3	47.8	59.6	71.4	80.2	85.8	83.3	76.8	66.3	53.7	42.1	62.2
N.C.--- Charlotte	51.4	53.7	60.0	71.0	79.4	87.6	88.8	87.8	81.9	72.8	60.7	51.3	70.5
Raleigh	51.9	54.0	61.1	71.8	79.4	86.3	88.1	87.1	82.0	72.8	62.2	52.3	70.8
N.Dak.--- Bismarck	19.6	23.3	35.1	54.9	68.2	76.5	85.7	83.7	72.6	59.4	38.6	26.9	53.7
Ohio.--- Cincinnati	42.9	44.8	53.3	65.6	76.0	85.2	88.8	87.8	80.8	69.6	54.5	44.3	66.1
Cleveland	34.8	35.6	44.1	57.5	68.7	78.1	82.8	81.2	74.5	63.6	49.0	36.9	58.9
Columbus	37.8	39.5	48.4	62.2	73.5	82.9	86.6	85.0	77.6	65.8	50.6	39.6	62.5
Oklahoma City	45.9	51.3	59.5	70.6	78.1	87.4	92.8	93.5	84.7	73.9	58.8	49.2	70.5
Oreg.--- Portland	43.7	48.8	64.2	61.7	67.5	71.8	78.6	77.0	73.7	63.2	51.7	46.5	61.6
Pa.--- Philadelphia	40.3	41.8	50.3	62.6	73.4	81.6	85.9	83.7	77.2	66.5	54.0	42.3	63.3
Pittsburgh	36.5	37.6	46.1	60.0	71.4	79.9	83.3	81.9	75.5	63.7	49.5	38.1	60.3
R.I.--- Providence	37.3	38.3	45.3	56.6	67.7	76.1	81.4	80.4	73.1	63.4	52.2	40.4	59.3
S.C.--- Columbia	58.2	60.5	66.5	76.3	84.7	91.5	92.5	91.2	86.1	77.4	66.7	58.2	75.8
S.Dak.--- Sioux Falls	25.1	29.1	39.4	57.0	70.1	79.4	86.0	83.3	73.5	61.9	42.5	30.3	56.5
Tenn.--- Memphis	50.6	53.9	61.4	72.1	80.1	88.3	91.1	90.7	85.6	75.7	61.5	52.5	72.0
Nashville	48.8	51.4	59.4	70.8	79.8	88.4	90.7	89.9	84.5	73.7	59.1	50.3	70.6
Tex.--- Dallas	55.8	59.5	67.0	75.4	82.7	90.9	94.5	95.0	88.3	78.8	65.7	58.0	76.0
El Paso	56.3	62.4	69.4	78.2	86.9	95.4	94.9	93.0	87.5	78.8	66.3	57.5	77.2
Houston	63.6	68.5	71.7	78.0	85.7	91.1	92.1	92.8	89.1	82.3	71.1	65.4	79.0
Utah.--- Salt Lake City	36.8	42.0	52.0	63.4	74.0	83.7	94.1	90.8	80.3	65.2	47.5	39.0	64.1
Vt.--- Burlington	25.4	27.1	36.3	52.4	66.4	77.1	81.9	79.6	70.6	58.6	43.4	30.2	54.1
Va.--- Norfolk	50.2	51.0	57.2	68.0	77.3	84.9	87.9	86.2	80.9	70.9	61.0	51.8	68.9
Richmond	48.3	50.6	59.1	70.4	79.3	86.8	89.4	85.6	81.8	70.6	59.9	49.8	69.4
Wash.--- Seattle-Tacoma	43.6	47.0	51.3	58.2	65.6	69.9	75.6	74.6	69.3	60.3	49.6	45.9	59.2
Spokane	31.4	37.4	47.0	58.6	69.3	74.5	85.6	83.0	74.7	60.1	42.9	35.9	58.4
W.Va.--- Charleston	45.2	46.9	54.5	66.3	76.7	83.2	85.6	84.3	79.5	69.3	55.3	45.6	66.0
Wis.--- Milwaukee	28.3	30.2	38.8	53.1	63.9	73.9	78.9	77.7	70.7	50.1	44.1	32.0	54.3
Wyo.--- Cheyenne	37.2	39.4	44.1	55.5	65.1	76.5	85.2	82.8	74.2	62.7	47.2	41.6	59.3
P.R.--- San Juan	81.3	81.8	83.1	84.0	85.8	87.1	87.1	87.8	87.8	87.1	85.0	82.7	85.1

<sup>1</sup> City office data.Source: Dept. of Commerce, Environmental Science Services Administration; *Local Climatological Data*. Monthly with annual summary.

## NO. 266. NORMAL MONTHLY MINIMUM TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
Ala.--- Mobile	43.7	45.7	50.3	57.6	65.3	71.5	73.1	73.0	68.3	59.5	48.2	44.3	58.4
Alaska--- Juneau	20.0	21.4	24.3	30.5	37.6	43.7	47.8	46.6	42.5	36.7	29.4	24.0	33.7
Ariz.--- Phoenix	35.3	38.9	42.9	50.4	57.1	65.5	75.0	73.4	67.3	54.6	42.4	37.0	53.8
Ark.--- Little Rock	30.5	34.1	40.9	51.2	59.5	68.0	71.1	70.1	62.2	50.2	37.6	31.7	50.6
Calif.--- Los Angeles	45.0	46.7	48.9	51.9	55.2	58.5	62.3	62.8	61.1	56.8	51.0	47.3	54.0
Sacramento	37.2	39.8	42.0	45.3	49.7	54.4	57.4	56.3	55.0	49.4	41.6	38.1	47.2
San Francisco <sup>1</sup>	45.5	47.3	48.6	51.3	53.1	53.3	53.9	53.9	55.1	54.4	51.0	47.4	50.9
Colo.--- Denver	14.8	18.3	22.8	32.3	41.8	51.0	57.4	56.2	47.0	36.2	23.6	18.0	35.0
Conn.--- Hartford	17.3	18.2	26.7	37.3	47.7	56.9	61.8	59.7	51.8	41.2	31.6	20.2	39.2
Del.--- Wilmington	25.5	25.2	32.0	41.6	52.0	61.0	65.8	64.3	57.3	45.9	35.7	26.7	44.4
D.C.--- Washington	29.5	29.4	35.8	45.6	56.0	64.9	69.3	67.9	60.7	49.6	38.9	30.5	48.2
Fla.--- Jacksonville	45.0	46.5	51.1	57.8	65.1	71.1	73.2	73.2	71.1	61.8	51.2	45.5	59.4
Miami	57.9	58.8	61.1	65.8	69.7	73.5	74.7	74.9	74.6	70.9	64.6	59.1	67.1
Ga.--- Atlanta	37.3	38.4	42.5	50.2	59.2	67.5	70.7	69.8	64.3	52.4	41.5	37.1	52.6
Hawaii--- Honolulu	65.8	66.0	66.4	68.1	70.0	72.0	73.0	73.8	73.2	72.1	69.7	67.9	69.8
Idaho--- Boise	22.1	26.5	31.9	37.4	44.5	51.1	59.0	55.5	46.6	37.9	28.7	25.0	38.9
Ill.--- Chicago	19.0	20.6	29.0	40.5	50.9	61.5	67.1	65.9	57.4	46.7	32.6	22.5	42.8
Peoria	17.6	20.1	28.4	40.3	50.7	61.1	65.0	63.5	55.0	44.1	30.7	21.3	41.5
Ind.--- Indianapolis	21.0	22.8	29.7	40.3	50.7	60.4	64.3	62.7	54.9	44.0	31.8	23.2	42.2
Iowa--- Des Moines	11.3	14.6	24.6	38.0	49.8	60.7	65.2	63.4	53.8	42.6	27.6	17.0	39.1
Kans.--- Wichita	22.3	25.6	33.0	45.2	54.9	64.9	68.8	58.9	48.0	33.7	26.6	16.0	46.0
Ky.--- Louisville	26.5	26.0	32.8	43.1	52.6	61.8	66.6	65.1	57.7	46.2	34.9	27.8	45.1
La.--- New Orleans	44.8	47.5	51.6	58.1	64.4	70.5	72.6	73.0	69.3	60.5	49.6	45.5	59.0
Maine--- Portland	11.7	12.1	22.0	32.4	41.7	51.1	56.7	55.2	47.2	37.4	28.6	16.3	34.4
Md.--- Baltimore	26.3	25.8	32.5	42.6	52.8	61.4	68.4	65.0	57.6	45.6	34.4	25.9	44.6
Mass.--- Boston	23.0	21.1	30.7	40.0	50.1	59.2	65.4	63.3	57.1	47.2	37.8	26.5	43.6
Mich.--- Detroit	20.7	20.4	27.3	38.8	49.4	60.3	64.8	63.6	56.0	44.7	33.7	24.1	42.0
Sault Ste. Marie	8.4	7.4	15.8	29.6	39.3	48.0	55.3	54.0	47.1	38.1	26.9	14.4	31.9
Minn.--- Duluth	-0.6	0.1	11.4	26.9	37.7	47.3	53.9	52.9	43.7	34.6	19.5	5.7	27.8
Minneapolis-St. Paul	2.3	5.0	17.6	32.8	45.4	55.5	60.7	58.6	48.5	37.2	21.8	8.7	32.8
Miss.--- Jackson	37.4	39.4	44.4	52.5	60.9	68.4	71.7	70.9	64.7	54.4	43.4	38.9	53.0
Mo.--- Kansas City	23.4	26.7	34.0	45.8	56.0	65.5	71.0	69.2	59.9	48.7	34.6	27.9	47.0
St. Louis	28.5	25.3	32.4	43.8	53.3	63.1	66.9	66.3	57.6	46.6	34.5	26.5	45.0
Mont.--- Great Falls	12.5	15.3	18.6	20.2	31.9	40.2	46.9	54.1	51.8	43.5	35.6	24.4	18.8
Nebr.--- Omaha	12.9	17.0	27.3	40.9	52.1	62.4	67.3	65.5	55.3	43.8	28.8	19.1	41.0
Nev.--- Reno	16.2	21.4	25.6	30.5	36.3	39.8	45.0	42.7	36.4	29.4	20.8	16.4	30.1
N.H.--- Concord	10.6	11.8	21.7	27.1	41.6	51.3	56.4	54.1	46.2	35.6	27.2	14.8	33.6
N.J.--- Atlantic City	26.6	26.1	32.4	41.7	51.5	60.7	66.3	65.1	58.4	47.8	37.9	28.1	45.2
N.Mex.--- Albuquerque	23.5	27.5	32.7	42.2	51.9	61.1	65.8	64.3	57.6	45.3	31.1	25.6	44.1
N.Y.--- Albany	14.4	14.8	24.0	35.7	46.3	55.8	58.5	55.3	50.3	39.8	26.0	18.5	37.4
Buffalo	18.2	17.2	24.4	34.0	44.1	54.5	59.4	58.1	51.2	41.4	31.7	21.1	37.9
New York <sup>1</sup>	26.9	26.4	33.2	43.1	53.4	62.5	68.2	66.8	60.1	50.3	40.3	29.7	46.7
N.C.--- Charlotte	34.0	34.7	40.0	49.6	58.6	66.6	69.5	69.5	63.8	52.2	40.1	34.1	51.1
Raleigh	31.3	31.9	37.8	46.8	55.7	63.9	67.6	66.7	60.4	48.2	37.7	31.4	48.3
N.Dak.--- Bismarck	0.1	3.7	17.3	32.1	43.6	52.4	57.7	54.8	44.7	34.0	19.1	8.6	30.7
Ohio--- Cincinnati	28.0	27.7	35.2	45.7	55.5	65.3	68.8	67.5	60.3	49.3	38.2	30.0	47.7
Cleveland	20.3	19.6	26.7	35.7	46.3	56.2	60.2	58.5	52.3	42.0	31.8	22.9	39.4
Columbus	22.0	22.7	29.3	36.4	49.4	58.6	62.9	61.4	54.2	42.5	31.8	23.4	41.5
Oklahoma City	21.1	31.2	37.5	49.1	58.6	68.5	72.2	70.0	62.9	51.8	38.0	31.4	50.1
Oreg.--- Portland	33.0	35.1	37.9	41.8	47.2	52.5	55.7	55.2	50.7	45.1	38.4	36.1	44.0
Pa.--- Philadelphia	24.3	24.6	31.6	41.4	51.8	60.4	65.2	63.5	56.2	44.9	34.5	25.5	43.7
Pittsburgh	21.2	20.7	27.4	37.9	48.1	56.9	60.6	59.6	52.8	42.4	32.0	23.2	40.3
R.I.--- Providence	21.0	21.1	28.6	37.7	47.2	52.6	59.3	56.7	50.0	40.7	30.0	20.7	39.4
S.C.--- Columbia	35.6	36.3	42.3	50.8	59.6	67.9	70.7	69.7	64.5	52.0	40.7	34.5	40.8
S. Dak.--- Sioux Falls	5.2	9.0	20.8	34.7	46.5	56.8	62.5	60.3	50.0	38.6	22.7	11.9	34.9
Tenn.--- Memphis	32.4	34.3	40.7	50.7	60.4	68.6	71.5	70.3	62.1	50.5	38.7	32.5	51.1
Nashville	30.9	32.5	38.7	48.4	57.4	66.3	69.6	68.4	61.1	49.3	37.9	32.4	49.4
Tex.--- Dallas	36.0	39.4	45.2	54.6	63.1	71.7	75.8	75.0	67.4	56.8	44.1	38.1	55.6
El Paso	29.5	35.7	40.3	48.5	55.9	66.5	68.9	67.7	61.4	50.0	36.1	30.7	49.4
Houston	43.6	46.0	50.8	59.0	68.2	72.0	73.8	73.6	69.3	60.4	50.5	45.9	59.3
Utah--- Salt Lake City	17.5	22.0	28.8	36.4	43.8	51.0	59.6	58.2	48.5	38.2	25.9	21.2	37.7
Vt.--- Burlington	6.9	7.6	17.0	30.0	41.2	51.2	56.0	53.8	46.1	36.6	27.1	12.8	32.2
Va.--- Norfolk	32.2	32.2	38.7	47.9	57.7	66.3	69.6	68.8	64.3	53.1	41.8	33.1	50.5
Richmond	29.0	29.2	36.3	45.8	54.6	63.4	66.7	65.4	58.6	46.7	37.1	29.5	46.9
Wash.--- Seattle-Tacoma	33.0	34.5	36.2	40.1	45.3	49.7	54.1	53.6	50.5	44.4	38.1	35.7	42.9
Spokane	19.2	22.5	29.1	35.9	43.1	49.3	55.4	52.9	47.0	38.0	28.5	24.2	37.1
W.Va.--- Charleston	27.9	28.0	34.3	44.3	52.8	60.8	64.2	63.3	56.8	45.3	35.2	28.6	45.1
Wis.--- Milwaukee	12.8	14.6	23.2	34.1	42.9	52.6	56.0	52.6	43.0	32.2	21.2	17.4	32.5
Wyo.--- Cheyenne	13.6	15.2	20.7	29.6	40.6	49.5	54.8	52.6	43.0	32.2	21.2	17.4	32.5
P.R.--- San Juan	67.4	67.0	67.5	69.2	71.5	72.9	73.7	74.0	73.2	72.8	71.4	69.6	70.9

<sup>1</sup> City office data.

## No. 267. HIGHEST TEMPERATURE OF RECORD—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. For period of record through 1966]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala. .... Mobile <sup>1</sup> ....	94	84	82	91	92	100	102	104	102	103	95	86	83	104
Alaska. .... Juneau ....	23	57	49	52	71	82	84	84	83	72	61	56	54	84
Ariz. .... Phoenix <sup>1</sup> ....	70	85	92	97	104	114	118	118	117	118	105	96	88	118
Ark. .... Little Rock ....	28	83	83	88	93	98	104	107	108	106	97	86	80	108
Calif. .... Los Angeles <sup>2</sup> ....	89	90	92	99	100	103	105	109	106	110	106	101	94	110
Sacramento <sup>1</sup> ....	89	72	80	86	96	103	115	114	111	109	102	87	72	115
San Francisco <sup>2</sup> ....	96	79	80	86	89	97	106	104	92	102	96	86	76	105
Colo. .... Denver <sup>1</sup> ....	95	76	77	83	86	96	104	104	105	97	90	79	79	105
Conn. .... Hartford ....	21	66	68	87	94	96	101	102	101	101	91	83	67	101
Del. .... Wilmington ....	19	75	74	86	89	95	99	102	101	100	91	85	72	102
D.C. .... Washington <sup>1</sup> ....	96	84	84	93	96	97	102	106	106	104	96	87	75	106
Fla. .... Jacksonville ....	25	85	88	90	93	99	103	105	102	100	96	88	84	105
Miami ....	24	87	89	90	93	94	98	96	98	95	92	89	86	98
Ga. .... Atlanta ....	32	79	79	86	89	97	102	103	102	99	95	84	74	103
Hawaii. .... Honolulu <sup>2</sup> ....	44	83	84	86	86	90	90	90	91	93	92	89	85	93
Idaho. .... Boise ....	27	63	67	78	92	98	109	111	110	102	91	73	62	111
Ill. .... Chicago ....	22	67	69	82	88	94	104	103	101	101	91	81	65	104
Peoria ....	27	68	70	81	88	92	100	103	101	100	90	81	66	103
Ind. .... Indianapolis ....	30	71	72	81	88	94	102	107	100	100	90	81	69	107
Iowa. .... Des Moines <sup>1</sup> ....	88	65	78	88	92	105	108	110	110	102	95	82	69	110
Kans. .... Wichita ....	14	73	81	89	94	100	106	113	110	103	95	80	83	113
Ky. .... Louisville ....	19	77	77	85	91	95	102	105	101	104	92	84	72	105
La. .... New Orleans <sup>1</sup> ....	96	84	85	90	92	98	102	102	102	101	96	92	85	102
Maine. .... Portland ....	26	64	64	86	85	92	97	98	100	95	88	73	62	100
Md. .... Baltimore <sup>2</sup> ....	96	79	83	90	95	98	105	107	105	101	97	87	75	107
Mass. .... Boston ....	13	62	68	78	91	93	100	100	100	100	90	76	64	100
Mich. .... Detroit ....	33	67	68	82	87	93	104	105	101	100	92	81	64	105
Minn. .... Duluth <sup>1</sup> ....	26	43	45	75	82	88	92	94	98	93	80	66	59	98
Minneapolis-St. Paul ....	90	55	58	78	88	95	97	106	97	94	86	73	56	106
Miss. .... Jackson ....	28	58	59	78	92	95	100	104	102	98	89	75	63	104
Mo. .... Kansas City ....	35	85	83	88	93	99	105	104	106	103	98	86	84	106
St. Louis <sup>1</sup> ....	31	75	76	89	91	97	107	112	113	109	98	83	74	113
Mont. .... Great Falls ....	29	62	67	72	87	90	99	102	106	94	91	72	69	106
Nebr. .... Omaha <sup>1</sup> ....	94	69	78	91	94	103	107	114	111	104	96	80	72	114
Nev. .... Reno ....	24	68	73	83	88	94	101	104	102	101	90	77	69	104
N.H. .... Concord ....	24	68	66	85	91	97	98	99	100	98	90	80	63	100
N.J. .... Atlantic City ....	21	73	73	87	89	96	100	104	102	97	90	84	72	104
N. Mex. .... Albuquerque ....	27	68	72	81	89	98	101	104	100	98	87	74	72	104
N.Y. .... Albany ....	19	64	62	79	91	94	99	100	99	100	98	82	62	100
Buffalo ....	23	72	64	81	87	90	95	94	99	98	87	80	66	99
New York <sup>3</sup> ....	98	72	75	86	92	99	101	106	104	102	94	84	70	106
N.C. .... Charlotte ....	27	78	80	90	93	100	103	103	102	104	98	85	77	104
N. Dak. .... Bismarck ....	27	54	68	81	92	98	100	108	109	105	95	74	62	109
Ohio. .... Cincinnati <sup>3</sup> ....	51	77	76	88	90	95	102	109	103	101	92	83	71	109
Cleveland ....	37	73	72	83	88	95	102	107	102	101	90	82	69	107
Columbus <sup>1</sup> ....	89	74	73	85	90	96	102	106	103	101	90	80	70	106
Oklahoma. .... Oklahoma City ....	13	74	84	89	95	96	100	107	107	102	95	81	86	107
Oreg. .... Portland ....	26	62	66	80	87	92	100	105	100	101	89	69	64	105
Pa. .... Philadelphia ....	25	74	74	87	92	96	100	104	101	100	96	80	72	104
Pittsburgh <sup>1</sup> ....	92	75	77	84	90	95	99	103	103	102	91	82	73	103
R.I. .... Providence ....	27	63	65	86	87	94	97	99	100	99	88	81	69	100
S.C. .... Columbia ....	19	82	84	89	93	101	107	107	106	101	101	90	80	107
S. Dak. .... Sioux Falls ....	19	59	70	80	94	94	101	108	105	99	92	75	61	108
Tenn. .... Memphis ....	25	78	81	85	91	97	104	106	105	103	95	85	79	106
Nashville ....	26	78	84	86	90	97	106	107	104	105	94	84	76	107
Tex. .... Dallas ....	26	88	88	96	99	99	105	111	109	105	99	89	89	111
El Paso ....	24	75	81	88	98	104	109	109	103	93	93	88	76	109
Houston <sup>1</sup> ....	77	84	90	96	94	98	103	105	108	101	99	90	85	108
Utah. .... Salt Lake City ....	38	60	68	78	85	93	104	107	103	98	89	74	66	107
Vt. .... Burlington ....	21	63	60	84	87	91	96	99	91	94	85	75	62	101
Va. .... Norfolk ....	18	77	78	85	97	97	101	103	97	98	95	85	77	103
Richmond ....	37	80	83	93	96	100	104	104	102	103	99	86	78	104
Wash. .... Seattle-Tacoma ....	22	61	68	72	82	93	96	97	99	98	89	80	74	61
Spokane ....	19	52	61	71	84	92	97	102	108	96	85	65	54	108
W. Va. .... Charleston ....	19	79	77	87	90	93	98	102	100	102	92	85	79	102
Wis. .... Milwaukee ....	25	62	60	81	85	90	99	101	100	98	89	77	63	101
Wyo. .... Cheyenne ....	31	63	71	73	82	89	100	100	96	93	82	73	69	100
P.R. .... San Juan ....	12	90	91	93	93	94	92	92	93	93	92	90	94	94

<sup>1</sup> Represents combination of several locations within the city. <sup>2</sup> Includes urban data. <sup>3</sup> City office data.

## NO. 268. LOWEST TEMPERATURE OF RECORD—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. For period of record through 1966]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala. .... Mobile <sup>1</sup>	95	8	-1	11	32	43	50	60	57	47	32	-5	10	-1
Alaska .... Juneau	23	-20	-12	-11	6	25	31	36	27	26	16	-3	-21	-21
Ariz. .... Phoenix <sup>1</sup>	60	16	22	29	32	39	49	61	58	47	36	25	22	16
Ark. .... Little Rock	28	-4	-5	11	20	40	52	56	55	37	30	17	-1	-5
Calif. .... Los Angeles <sup>2</sup>	89	23	28	31	36	40	46	49	49	44	40	34	30	28
Calif. .... Sacramento <sup>1</sup>	89	19	21	28	32	34	43	47	46	43	31	26	17	17
Calif. .... San Francisco <sup>2</sup>	96	24	25	30	31	36	41	43	42	38	34	25	20	20
Colo. .... Denver	95	-29	-30	-11	4	19	30	42	40	21	-2	-18	-25	-30
Conn. .... Hartford	21	-26	-21	-8	19	27	37	44	36	27	22	10	-11	-26
Del. .... Wilmington	10	4	-4	9	23	32	44	50	46	37	26	14	3	-4
D.C. .... Washington <sup>1</sup>	98	-14	-15	4	15	33	52	59	49	36	28	11	-13	-15
Fla. .... Jacksonville	25	20	19	25	35	49	56	65	64	55	38	23	12	12
Fla. .... Miami	24	34	32	40	41	53	65	69	68	60	51	39	35	32
Ga. .... Atlanta	32	-3	5	10	28	38	46	58	56	41	29	3	1	-3
Hawaii. .... Honolulu <sup>2</sup>	44	56	57	58	59	64	64	68	67	68	65	61	59	56
Idaho .... Boise	27	-17	-10	10	20	27	38	41	38	27	20	-3	-1	-17
Ill. .... Chicago	22	-16	-15	-7	19	29	35	49	46	36	20	-2	-14	-15
Ind. .... Indianapolis	36	-18	-19	-6	16	28	39	44	42	28	17	-2	-15	-19
Iowa .... Des Moines <sup>1</sup>	88	-30	-26	-22	11	26	37	48	40	26	7	-10	-21	-30
Kans. .... Wichita	14	-12	-3	-2	17	32	44	54	48	40	23	8	-5	-12
Ky. .... Louisville	19	-20	-19	-1	25	31	45	50	49	33	23	-1	-9	-20
La. .... New Orleans <sup>1</sup>	96	15	7	26	35	37	55	61	61	53	36	26	17	7
Maine .... Portland	26	-21	-39	-21	8	23	33	40	38	23	18	5	-21	-39
Md. .... Baltimore <sup>2</sup>	96	-7	-7	5	15	32	42	52	48	35	25	12	-3	-7
Mass. .... Boston	13	-12	-4	7	17	34	46	54	47	38	32	17	-4	-12
Mich. .... Detroit	33	-13	-16	-1	14	30	38	47	43	32	24	5	-5	-16
Mich. .... Sault Ste. Marie	26	-27	-25	-24	1	18	28	36	32	25	20	-5	-20	-27
Minn. .... Duluth <sup>1</sup>	90	-41	-36	-28	-5	16	30	37	36	22	8	-29	-35	-41
Minn. .... Minneapolis	28	-32	-28	-32	2	24	34	45	40	26	16	-17	-22	-32
Miss. .... St. Paul	35	-5	1	17	30	42	48	57	54	41	28	16	14	-5
Mo. .... Kansas City	31	-13	-7	-3	16	32	44	54	49	34	24	5	-4	-13
Mo. .... St. Louis <sup>1</sup>	96	-22	-18	-5	20	31	44	51	47	32	21	1	-15	-22
Mont. .... Great Falls	29	-33	-35	-29	-6	15	31	42	35	23	7	-23	-36	-36
Nebr. .... Omaha <sup>1</sup>	94	-32	-26	-16	6	25	39	50	44	30	8	-14	-20	-32
Nev. .... Reno	24	-16	-12	-2	13	19	25	33	24	21	13	1	-9	-16
N.H. .... Concord	24	-30	-37	-16	9	21	32	38	33	21	16	5	-22	-37
N.J. .... Atlantic City	21	-8	-4	9	24	25	39	46	40	35	26	11	-7	-8
N. Mex. .... Albuquerque	27	-7	-5	8	19	33	44	54	53	37	26	10	3	-7
N.Y. .... Albany	19	-26	-21	-21	14	27	36	41	42	24	20	6	-19	-26
N.Y. .... Buffalo	23	-12	-20	-2	12	26	35	43	38	32	20	7	-8	-20
N.Y. .... New York <sup>2</sup>	98	-6	-15	3	12	32	44	52	50	39	28	5	-13	-15
N.C. .... Charlotte	27	-3	5	10	26	32	46	53	53	38	24	11	2	-3
N.Dak. .... Bismarck	27	-44	-34	-31	-2	19	33	39	33	16	5	-29	-36	-44
Ohio. .... Cincinnati <sup>1</sup>	51	-17	-9	3	18	29	40	50	43	32	20	1	-13	-17
Ohio. .... Cleveland	37	-19	-15	-5	10	25	38	43	41	32	23	4	-9	-19
Okl. .... Columbus	88	-20	-20	-2	15	25	39	44	39	31	20	-5	-12	-20
Okl. .... Oklahoma City	13	-4	7	3	20	39	47	57	51	45	22	11	5	-4
Oreg. .... Portland	26	-2	-3	19	29	29	39	43	44	34	26	13	6	-3
Pa. .... Philadelphia	25	-5	-4	7	24	28	44	51	45	35	25	15	1	-5
P.R.I. .... Pittsburgh <sup>1</sup>	92	-18	-20	-1	11	26	38	42	40	31	16	-1	-9	-20
R.I. .... Providence	27	-9	-15	1	14	29	39	46	40	32	24	12	-11	-15
S.C. .... Columbia	19	7	11	18	29	34	51	54	44	28	16	4	4	4
S. Dak. .... Sioux Falls	19	-29	-31	-23	11	20	33	44	34	24	13	-17	-25	-31
Tenn. .... Memphis	25	-4	-11	12	29	38	48	52	48	36	25	9	-13	-13
Tenn. .... Nashville	26	-15	-13	5	25	34	44	51	47	36	26	-1	-7	-15
Tex. .... Dallas	26	2	7	11	31	30	53	61	56	30	17	10	2	-8
Tex. .... El Paso	24	-8	8	15	28	38	50	60	58	41	32	16	5	-8
Utah .... Houston <sup>1</sup>	77	5	6	21	32	45	55	55	45	33	23	15	5	5
Utah .... Salt Lake City	38	-22	-30	2	14	25	35	41	37	27	18	-14	-21	-30
Vt. .... Burlington	21	-30	-26	-20	9	24	33	39	39	25	19	-2	-22	-30
Va. .... Norfolk	18	10	8	20	28	36	48	57	52	46	29	20	14	8
Va. .... Richmond	37	-12	-10	11	26	31	41	51	46	37	21	10	-1	-12
Wash. .... Seattle-Tacoma	22	-1	11	29	28	38	43	44	36	28	6	10	-2	-1
W. Va. .... Spokane	19	-24	-22	-3	17	24	34	39	35	25	20	-11	-20	-24
W. Va. .... Charleston	19	-12	-4	10	20	26	35	46	46	34	17	6	-2	-12
Wis. .... Milwaukee	25	-24	-19	-10	13	21	32	33	40	44	28	21	-5	-15
Wyo. .... Cheyenne	31	-27	-34	-21	-6	16	25	38	37	18	2	-12	-24	-34
P.R. .... San Juan	12	61	62	60	65	66	69	70	69	67	66	63	60	60

- Represents zero.

<sup>1</sup> Represents combination of several locations within the city.<sup>2</sup> Includes urban data.

City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; *Local Climatological Data*. Monthly with annual summary.

## No. 269. NORMAL MONTHLY AND ANNUAL PRECIPITATION—SELECTED CITIES

[In inches. Airport data unless otherwise noted. Based on standard 30-year period 1931 to 1960. T denotes trace. See *Historical Statistics, Colonial Times to 1957*, series J 136–265, for related data.]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala. Mobile	4.64	4.59	7.23	6.36	4.88	6.23	9.67	6.44	6.25	3.03	3.35	5.46	68.13
Alaska Juneau	4.00	3.06	3.27	8.37	2.34	3.39	4.40	5.02	6.67	8.33	6.06	4.22	54.62
Ariz. Phoenix	0.73	0.85	0.66	0.32	0.13	0.09	0.77	1.12	0.73	0.46	0.49	0.85	7.20
Ark. Little Rock	5.22	4.33	4.81	4.93	5.28	3.61	3.34	2.82	3.23	2.88	4.12	4.09	48.66
Calif. Los Angeles	2.66	2.88	1.79	1.05	0.13	0.05	0.01	0.02	0.17	0.39	1.09	2.39	12.63
Sacramento	3.18	2.99	2.36	1.40	0.59	0.10	T	0.02	0.19	0.77	1.45	3.24	16.29
San Francisco	4.01	3.48	2.69	1.30	0.48	0.11	0.01	0.02	0.19	0.74	1.57	4.09	18.69
Colo. Denver	0.55	0.69	1.21	2.11	2.70	1.44	1.53	1.28	1.13	1.01	0.69	0.47	14.81
Conn. Hartford	3.58	2.94	3.80	3.73	3.41	3.70	3.61	4.07	3.65	3.18	3.84	3.47	42.92
Del. Wilmington	3.40	2.05	4.02	3.33	3.53	4.07	4.25	5.59	3.95	2.91	3.53	3.03	44.56
D.C. Washington	3.03	2.47	3.21	3.15	4.14	3.21	4.15	4.90	3.83	3.07	2.84	2.78	40.78
Fla. Jacksonville	2.45	2.91	3.49	3.55	3.47	6.33	7.68	6.85	7.50	5.16	1.69	2.22	53.36
Miami	2.03	1.87	2.27	3.88	6.44	7.37	6.75	6.97	9.47	8.21	2.83	1.67	59.76
Ga. Atlanta	4.44	4.51	5.37	4.47	3.16	3.83	4.72	3.60	3.26	2.44	2.96	4.38	47.14
Hawaii Honolulu	3.76	3.30	2.89	1.31	0.99	0.33	0.44	0.89	0.99	1.84	2.16	2.09	21.80
Idaho Boise	1.32	1.33	1.32	1.16	1.29	0.89	0.21	0.16	0.39	0.84	1.20	1.32	11.43
Ill. Chicago	1.86	1.60	2.74	3.04	3.73	4.07	3.37	3.16	2.73	2.78	2.20	1.00	33.18
Peoria	1.88	1.71	2.85	3.97	4.27	4.08	3.54	2.88	3.05	2.53	2.14	1.04	34.84
Ind. Indianapolis	3.05	2.28	3.41	3.74	3.99	4.50	3.50	3.03	3.24	2.62	3.09	2.68	39.25
Iowa Des Moines	1.30	1.10	2.09	2.58	4.07	4.71	3.00	3.67	2.88	2.06	1.76	1.14	30.37
Kans. Wichita	0.81	0.92	1.64	2.36	3.07	4.21	3.64	2.87	3.22	2.40	1.49	0.94	28.41
Ky. Louisville	4.10	3.29	4.59	3.82	3.90	3.99	3.36	2.97	2.63	2.25	3.20	3.22	41.32
La. New Orleans	3.84	3.99	5.34	5.44	4.38	4.43	6.72	5.34	5.03	2.84	3.34	4.10	53.90
Maine Portland	4.37	3.80	4.34	3.73	3.41	3.18	2.86	2.42	3.62	3.20	4.17	3.85	42.85
Md. Baltimore	3.43	2.89	3.82	3.60	3.98	3.29	4.22	5.19	3.33	3.18	3.13	2.99	43.05
Mass. Boston	3.94	3.32	4.22	3.77	3.34	3.48	2.88	3.68	3.46	3.14	3.93	3.63	42.77
Mich. Detroit	2.05	2.08	2.42	3.00	3.63	2.83	2.82	2.80	2.44	2.63	2.21	2.08	30.95
Minn. Duluth	2.07	1.60	1.81	2.16	2.77	3.30	2.48	2.89	3.81	2.82	3.33	2.28	31.22
Minneapolis-St. Paul	1.15	0.96	1.62	2.36	3.29	4.27	3.54	3.81	2.86	2.17	1.78	1.16	28.97
Miss. Jackson	0.70	0.78	1.53	1.85	3.19	4.00	3.27	3.18	2.43	1.59	1.40	0.86	24.78
Mo. Kansas City	1.41	1.24	2.49	3.56	4.40	4.57	3.19	3.77	3.25	2.86	1.80	1.53	34.07
St. Louis	1.08	2.04	3.08	3.71	3.73	4.29	3.30	3.02	2.76	2.86	2.57	1.07	35.31
Mont. Great Falls	0.61	0.74	0.92	0.98	2.10	2.90	1.28	1.26	1.20	0.73	0.75	0.60	14.07
Nebr. Omaha	0.82	0.95	1.45	2.58	3.48	4.53	3.37	3.98	2.63	1.73	1.26	0.80	27.56
Nev. Reno	1.19	1.02	0.68	0.54	0.52	0.37	0.27	0.17	0.23	0.51	0.57	1.08	7.15
N.H. Concord	3.23	2.48	3.26	3.31	3.17	3.60	3.41	2.96	3.75	2.60	3.72	3.25	38.80
N.J. Atlantic City	3.56	3.13	3.09	3.41	3.51	2.83	2.72	4.90	3.31	3.20	3.66	3.22	42.36
N. Mex. Albuquerque	0.41	0.38	0.48	0.47	0.75	0.57	1.20	1.33	0.95	0.75	0.38	0.46	8.13
N.Y. Albany	2.47	2.20	2.72	2.77	3.47	3.25	3.49	3.07	3.58	2.77	2.70	2.59	35.08
Buffalo	2.84	2.72	3.24	3.01	2.95	2.54	2.57	3.05	3.13	3.00	3.60	3.00	35.65
New York	3.31	2.84	4.01	3.43	3.07	3.31	3.70	4.44	3.87	3.14	3.39	3.26	42.37
N.C. Charlotte	3.53	3.55	4.39	3.49	3.11	3.61	4.88	4.22	3.40	2.96	2.53	3.62	43.38
Raleigh	3.22	3.23	3.35	3.52	3.62	3.70	5.49	5.20	3.85	2.71	2.77	3.02	33.58
N.Dak. Bismarck	0.44	0.43	0.78	1.22	1.97	3.40	2.19	1.73	1.19	0.85	0.59	0.36	15.15
Ohio Cincinnati	3.67	2.80	3.89	3.63	3.80	4.18	3.59	3.28	2.71	2.24	2.95	2.77	39.51
Cleveland	2.67	2.33	3.13	3.52	3.43	3.31	3.28	2.90	2.42	2.61	2.34	35.35	
Columbus	3.16	2.31	3.16	3.49	4.00	4.18	3.93	2.86	2.65	2.11	2.50	2.34	36.67
Oklahoma City	1.31	1.37	1.97	3.12	5.19	4.47	2.37	2.52	3.02	2.51	1.50	1.41	30.82
Oreg. Portland	5.37	4.22	3.83	2.09	1.99	1.67	0.41	0.65	1.63	3.61	5.33	6.38	37.18
Pa. Philadelphia	3.32	1.80	3.80	3.40	3.74	4.05	4.16	4.63	3.46	2.78	3.40	2.94	42.48
Pittsburgh	2.97	2.19	3.32	3.08	3.01	3.78	3.88	3.31	2.54	2.52	2.24	2.40	36.14
R.I. Providence	3.81	3.10	1.44	3.75	3.35	2.78	2.91	3.96	3.52	3.10	4.11	3.62	42.13
S.C. Columbia	3.02	3.74	4.26	4.01	3.54	3.85	3.69	5.74	4.31	2.38	2.36	3.52	46.82
S. Dak. Sioux Falls	0.62	0.93	1.54	2.31	3.38	4.35	2.84	3.50	2.61	1.25	1.00	0.74	25.15
Tenn. Memphis	6.07	4.69	5.07	4.63	4.23	3.68	3.54	2.97	2.82	2.72	4.38	4.03	40.73
Nashville	5.49	4.51	5.19	3.74	3.72	3.25	3.72	2.86	2.87	2.32	3.28	4.19	45.15
Tex. Dallas	2.32	2.55	2.85	4.00	4.83	3.24	1.94	1.93	2.82	2.70	2.70	2.67	34.55
El Paso	0.46	0.41	0.35	0.29	0.40	0.69	1.29	1.10	1.14	0.85	0.33	0.49	7.89
Houston	3.78	3.44	2.67	3.24	4.32	3.09	4.29	4.27	4.26	3.77	3.86	4.36	45.95
Utah Salt Lake City	1.35	1.18	1.50	1.78	1.40	0.98	0.58	0.87	0.53	1.15	1.30	1.24	13.90
Vt. Burlington	1.05	1.79	2.11	2.68	2.99	3.49	3.85	3.37	3.31	2.07	2.62	2.13	33.21
Va. Norfolk	3.33	3.21	3.45	3.16	3.36	3.61	5.92	5.97	4.22	2.92	3.05	2.74	44.94
Richmond	3.46	2.90	3.42	3.15	3.72	3.75	5.61	5.54	3.65	3.00	3.04	2.97	44.21
Wash. Seattle-Tacoma	5.73	4.24	3.79	2.40	1.73	1.58	0.81	0.95	2.05	4.02	5.35	6.20	38.94
Spokane	2.44	1.86	1.50	0.91	1.21	1.49	0.38	0.41	0.75	1.57	2.24	2.43	17.10
W.Va. Charleston	4.32	3.53	4.34	3.68	3.71	3.69	5.67	3.95	2.92	2.58	2.79	3.25	44.43
Wis. Milwaukee	1.83	1.40	2.31	2.63	3.16	3.64	2.95	3.06	2.72	2.10	2.18	1.63	20.61
Wyo. Cheyenne	0.52	0.66	1.21	1.88	2.52	2.11	1.82	1.44	1.10	0.83	0.62	0.45	15.06
P.R. San Juan	4.70	2.90	2.20	3.72	7.12	5.66	6.25	7.13	6.76	5.83	6.49	5.45	64.21

<sup>1</sup> City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; *Local Climatological Data*. Monthly with annual summary.

No. 270. AVERAGE NUMBER OF DAYS WITH PRECIPITATION OF 0.01 INCH OR MORE—SELECTED CITIES

[Airport data for period of record through 1966, except as noted]

STATION	Length of record (yrs.)													An- nual	
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
Ala.----Mobile	25	11	10	11	8	8	12	17	13	10	6	7	11	124	
Alaska----Juneau	23	18	18	17	17	17	16	17	17	20	24	19	22	221	
Ariz.----Phoenix	27	4	4	3	2	1	1	4	5	3	3	2	4	34	
Ark.----Little Rock	24	10	10	11	11	10	8	8	7	7	6	8	9	101	
Calif.----Los Angeles	31	6	6	5	4	1	1	1	(Z)	1	2	3	5	35	
	Sacramento	27	10	9	8	6	3	1	(Z)	(Z)	1	3	6	56	
	San Francisco	39	11	10	9	6	3	1	(Z)	(Z)	1	3	7	62	
Colo.----Denver	32	6	6	9	9	10	9	9	8	6	5	5	5	87	
Conn.----Hartford	12	10	11	11	12	11	11	10	10	10	8	11	11	125	
Del.----Wilmington	19	11	10	12	12	11	9	9	9	8	8	9	9	117	
D.C.----Washington	25	11	9	12	10	11	9	9	9	8	7	8	9	112	
Fla.----Jacksonville	25	8	8	8	7	8	12	15	14	14	8	6	8	118	
	Miami	24	6	5	6	6	10	14	16	18	15	7	7	127	
Ga.----Atlanta	31	11	11	12	9	8	10	12	16	9	7	6	8	115	
Hawaii----Honolulu	17	10	10	8	9	6	6	7	7	6	9	9	10	100	
Idaho----Boise	27	12	11	10	8	9	9	7	2	3	6	10	11	91	
Ill.----Chicago	24	10	10	13	13	12	10	9	8	8	7	10	10	119	
	Peoria	27	9	8	11	12	11	10	8	8	6	8	9	108	
Ind.----Indianapolis	27	11	10	13	12	12	10	9	8	7	7	10	11	121	
Iowa----Des Moines	27	7	8	10	11	11	11	9	9	9	6	7	105		
Kans.----Wichita	13	6	5	8	7	10	9	9	7	9	5	4	5	82	
Ky.----Louisville	19	12	11	13	12	11	10	11	8	7	7	10	10	121	
La.----New Orleans	18	10	10	9	7	8	10	15	13	10	6	6	10	112	
Maine----Portland	26	11	10	11	12	13	11	9	9	8	9	11	11	126	
Md.----Baltimore	16	11	9	12	12	10	10	8	10	8	6	9	9	112	
Mass.----Boston	15	12	12	12	12	11	10	10	10	9	9	11	10	128	
Mich.----Detroit	33	13	12	13	12	12	11	9	9	9	9	11	13	133	
	Sault Ste. Marie	25	19	15	13	11	11	11	10	10	14	12	17	19	
Minn.----Duluth	25	11	10	11	11	13	12	11	11	11	8	11	12	133	
	Minneapolis-St. Paul	28	8	7	11	9	12	12	10	10	9	7	8	9	112
Miss.----Jackson 1	7	11	11	9	9	9	11	10	10	10	9	7	9	116	
Mo.----Kansas City	33	7	7	9	11	11	11	8	8	8	6	6	6	99	
	St. Louis	9	7	11	12	11	10	9	9	8	7	7	8	102	
Mont.----Great Falls	29	8	8	9	9	11	13	8	7	7	5	7	6	98	
Nebr.----Omaha	31	7	7	9	9	11	11	9	10	10	8	6	5	97	
Nev.----Reno	24	6	5	6	4	5	3	2	2	2	3	5	6	47	
N.H.----Concord	25	11	10	11	12	12	10	10	10	10	9	11	10	124	
N.J.----Atlantic City	23	11	10	11	11	10	9	9	9	7	7	9	9	112	
N. Mex.----Albuquerque	27	4	4	4	4	4	4	4	9	9	5	3	4	58	
N.Y.----Albany	20	13	11	12	13	13	10	10	10	10	9	11	12	132	
	Buffalo	13	20	17	16	16	12	9	10	12	10	11	15	19	
	New York 2	98	11	10	12	11	11	10	10	10	10	8	9	10	121
N.C.----Charlotte	27	10	10	11	12	9	9	9	12	10	7	6	7	110	
	Raleigh	22	10	10	10	10	10	10	10	12	11	8	8	115	
N. Dak.----Bismarck	27	8	7	8	8	10	12	9	9	7	5	6	7	96	
Ohio----Cincinnati 2	51	13	11	13	13	12	13	10	9	8	9	10	11	132	
	Cleveland	25	16	14	16	15	13	11	10	9	9	10	14	153	
	Columbus	27	13	12	14	14	13	11	11	11	9	8	11	12	
Oklahoma City	27	5	7	7	8	10	9	7	7	7	6	5	5	82	
Oreg.----Portland	26	19	17	17	14	12	10	4	5	7	13	18	19	152	
Pa.----Philadelphia	26	11	9	11	11	11	10	9	10	8	8	9	10	117	
	Pittsburgh	14	16	14	16	14	11	11	11	11	12	16	12	148	
R.I.----Providence	13	11	10	11	12	11	10	9	10	9	10	9	11	123	
S.C.----Columbia	19	10	11	11	9	8	8	9	12	11	8	9	9	110	
S. Dak.----Sioux Falls	21	5	6	8	8	10	9	8	9	9	8	6	5	92	
Tenn.----Memphis	16	10	10	11	11	11	8	8	9	9	8	5	8	103	
	Nashville	25	12	11	12	11	10	10	10	9	7	6	9	117	
Tex.----Dallas	26	7	8	7	9	8	6	5	6	6	5	6	6	79	
	El Paso	27	3	2	2	2	4	4	8	7	4	3	2	44	
	Houston	34	11	10	8	8	8	8	9	10	11	12	10	103	
Utah----Salt Lake City	38	10	9	9	9	8	5	4	5	5	6	7	8	86	
Vt.----Burlington	23	14	12	13	12	13	11	9	12	12	11	11	14	148	
Va.----Norfolk	18	10	10	12	11	10	9	11	11	11	8	8	8	116	
	Richmond	29	10	9	17	18	14	10	10	5	7	9	15	20	
Wash.----Seattle-Tacoma	22	19	17	18	14	10	10	11	11	10	8	7	8	114	
	Spokane	19	15	12	12	8	10	7	4	5	6	8	13	116	
W. Va.----Charleston	19	15	14	15	15	13	11	13	10	9	9	9	11	13	
Wis.----Milwaukee	26	11	9	12	12	12	10	9	9	9	9	9	10	119	
Wyo.----Cheyenne	31	6	7	10	10	12	12	11	10	10	7	5	6	100	
P.R.----San Juan	11	17	13	12	16	20	19	21	19	18	17	18	19	209	

Z Less than  $\frac{1}{2}$  day. <sup>1</sup> Record through 1964. <sup>2</sup> City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; Local Climatological Data. Monthly with annual summary.

## No. 271. AVERAGE TOTAL SNOW AND SLEET—SELECTED CITIES

[In inches. Airport data, for period of record through 1966, except as noted. T denotes trace]

STATION	Length of record (yrs.)													An- nual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Ala..... Mobile.....	25	0.1	0.1	0.1	—	—	—	—	—	T	—	T	0.1	0.4
Alaska.... Juneau.....	23	20.9	21.5	19.2	5.7	0.1	—	—	—	—	1.2	10.6	23.5	102.7
Ariz..... Phoenix.....	29	T	T	—	T	—	—	—	—	—	—	—	—	T
Ark..... Little Rock.....	24	2.6	1.4	0.4	T	—	—	—	—	—	—	0.1	1.2	5.7
Calif..... Los Angeles.....	31	T	T	—	—	—	—	—	—	—	—	—	—	T
Calif..... Sacramento.....	18	T	T	—	—	—	—	—	—	—	—	—	—	T
Calif..... San Francisco.....	39	T	T	T	—	—	—	—	—	—	—	—	T	T
Colo..... Denver.....	32	8.7	8.4	12.8	9.5	1.7	T	—	—	1.6	3.0	7.4	5.6	58.7
Conn.... Hartford.....	12	13.4	12.6	13.7	1.9	—	—	—	—	—	T	1.1	11.0	53.7
Dal..... Wilmington.....	19	6.4	5.8	4.6	0.1	T	—	—	—	—	T	1.2	4.9	23.0
D.C..... Washington.....	23	5.6	4.9	2.8	4.6	T	T	—	—	—	T	0.6	4.2	18.1
Fla..... Jacksonville.....	25	T	0.1	T	—	—	—	—	—	—	—	—	T	0.1
Fla..... Miami.....	24	—	—	—	—	—	—	—	—	—	—	—	—	—
Ga..... Atlanta.....	32	0.8	0.3	0.3	—	—	—	—	—	—	—	—	T	0.2
Hawaii.... Honolulu.....	20	—	—	—	—	—	—	—	—	—	—	—	—	—
Idaho.... Boise.....	27	8.2	4.2	2.1	0.3	0.1	T	—	—	—	T	1.7	4.9	21.5
Ill..... Chicago.....	24	8.5	7.7	7.4	0.7	T	—	—	—	0.2	2.7	10.1	37.3	
Ill..... Peoria.....	23	5.1	5.0	5.0	0.4	T	—	—	—	T	1.7	5.4	22.6	
Ind..... Indianapolis.....	35	4.5	5.0	3.6	0.5	T	—	—	—	T	2.0	4.3	19.9	
Iowa.... Des Moines.....	27	8.5	6.8	6.3	1.1	T	—	—	—	T	0.1	1.7	6.2	32.7
Kans.... Wichita.....	13	4.7	3.4	3.1	0.2	—	—	—	—	T	0.4	2.9	14.7	
Ky..... Louisville.....	19	5.4	4.3	3.1	0.1	—	—	—	—	T	1.6	2.6	17.1	
La..... New Orleans.....	20	T	0.1	T	—	—	—	—	—	T	0.1	—	—	
Maine.... Portland.....	26	10.6	19.1	13.6	2.5	0.3	—	—	—	T	0.2	2.8	13.1	71.2
Md..... Baltimore.....	16	6.6	6.2	6.0	0.1	T	—	—	—	T	0.9	5.4	25.2	
Mass.... Boston.....	31	13.1	11.2	7.8	0.7	T	—	—	—	T	1.3	7.1	41.3	
Mich.... Detroit.....	33	7.9	8.0	5.5	1.2	T	—	—	—	T	2.6	6.6	31.8	
Minn.... Sault Ste. Marie.....	25	28.1	16.6	15.6	4.6	0.7	T	—	—	0.2	2.0	14.2	26.2	108.2
Minn.... Duluth.....	23	14.4	12.7	14.9	7.0	1.0	T	—	—	T	1.3	9.7	14.5	75.5
Minn.... Minneapolis.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Minn.... St. Paul.....	28	6.5	8.0	11.6	2.6	0.2	—	—	—	0.1	0.3	6.0	7.2	42.5
Miss.... Jackson <sup>1</sup> .....	7	0.6	1.7	T	—	—	—	—	—	—	T	1.0	4.7	2.3
Mo..... Kansas City.....	33	5.8	4.1	4.2	0.6	T	—	—	—	T	1.2	2.9	17.5	
Mont.... Great Falls.....	30	4.4	4.1	4.8	0.1	T	—	—	—	—	—	—	—	54.4
Mont.... Great Falls.....	29	8.9	9.5	9.3	5.3	1.3	0.4	T	—	1.3	2.4	8.3	7.7	—
Nebr.... Omaha.....	31	8.1	7.6	7.9	0.9	0.1	T	—	—	T	0.2	2.1	5.6	32.5
Nev.... Reno.....	24	6.0	4.6	5.1	1.3	1.0	T	—	—	T	0.2	2.0	3.7	23.9
N.H..... Concord.....	25	18.4	14.0	11.0	1.7	0.2	—	—	—	T	2.9	12.6	60.5	
N.J..... Atlantic City.....	22	5.5	3.9	3.3	0.4	—	—	—	—	T	0.2	2.8	16.1	
N. Mex.... Albuquerque.....	27	2.1	1.8	1.6	0.4	T	—	—	—	T	1.4	2.6	9.9	
N.Y..... Albany.....	20	17.1	15.8	12.0	2.5	0.1	—	—	—	T	0.1	2.3	12.9	62.8
N.Y..... Buffalo.....	13	26.8	19.6	14.8	4.0	T	—	—	—	T	0.4	11.0	21.2	97.8
N.Y..... New York <sup>2</sup> .....	98	7.8	8.5	5.3	1.0	T	—	—	—	T	1.0	6.1	29.7	
N.C.... Charlotte.....	27	2.3	0.9	1.1	T	—	—	—	—	T	0.4	4.7	—	
N.C.... Raleigh.....	22	3.3	1.9	1.0	T	—	—	—	—	T	0.1	0.9	7.2	
N. Dak.... Bismarck.....	27	6.6	5.7	8.3	3.4	1.0	T	—	—	0.3	1.1	4.9	5.2	36.5
Ohio.... Cincinnati <sup>2</sup> .....	51	5.4	4.2	3.0	0.5	T	—	—	—	T	0.1	1.6	4.2	19.0
Ohio.... Cleveland.....	25	10.4	10.5	10.5	2.4	T	—	—	—	T	0.7	5.4	11.0	50.9
Oklahoma.... Oklahoma City.....	19	7.0	5.9	4.7	0.7	T	—	—	—	T	0.1	3.0	6.4	27.8
Oreg.... Portland.....	26	4.7	1.0	0.8	T	—	—	—	—	T	0.3	0.8	7.6	
Pa..... Philadelphia.....	20	6.1	6.0	4.0	0.1	T	—	—	—	T	0.7	4.8	21.7	
Pittsburgh.....	14	11.3	9.7	9.2	2.1	0.4	—	—	—	T	0.3	3.5	8.4	44.9
R.I..... Providence.....	13	11.3	9.0	10.2	0.6	—	—	—	—	T	0.1	0.6	7.4	39.2
S.C..... Columbia.....	19	0.3	0.2	—	—	—	—	—	—	T	0.5	—	1.1	
S. Dak.... Sioux Falls.....	21	5.7	10.4	11.9	2.1	T	—	—	—	T	0.2	4.3	6.0	40.6
Tenn.... Memphis.....	16	2.5	1.2	0.7	—	—	—	—	—	T	1.5	—	5.9	
Tenn.... Nashville.....	25	3.8	2.7	1.7	T	—	—	—	—	T	0.9	2.1	11.2	
Tex.... Dallas.....	26	1.5	0.5	0.2	—	—	—	—	—	—	T	0.2	2.4	
Tex.... El Paso.....	27	1.3	0.7	0.4	T	—	—	—	—	—	0.6	0.9	3.9	
Tex.... Houston.....	34	0.2	0.2	—	—	—	—	—	—	—	—	—	0.4	
Utah.... Salt Lake City.....	38	13.1	9.5	9.5	3.3	0.5	T	—	—	0.1	0.7	6.1	10.1	52.9
Vt..... Burlington.....	23	17.8	17.7	11.3	2.1	0.2	—	—	—	T	0.1	5.6	15.8	
Va.... Norfolk.....	18	3.7	1.6	0.6	0.1	—	—	—	—	T	0.5	2.2	14.8	
Richmond.....	29	5.9	3.1	2.9	0.2	—	—	—	—	T	1.4	2.2	14.2	
Wash.... Seattle-Tacoma.....	22	6.0	2.3	2.3	T	—	—	—	—	—	0.4	5.8	16.1	55.9
Spokane.....	19	19.2	8.3	5.6	0.5	T	T	—	—	—	0.2	2.9	4.2	27.5
Charleston.....	19	8.5	7.0	4.3	0.4	T	—	—	—	T	2.8	9.4	44.3	
Wis.... Milwaukee.....	26	13.3	8.0	9.7	1.1	T	—	—	—	T	2.8	6.2	5.2	52.3
Wyo.... Cheyenne.....	31	6.2	6.1	11.8	9.3	3.7	0.4	—	—	0.6	2.8	—	—	
P.R.... San Juan.....	11	—	—	—	—	—	—	—	—	—	—	—	—	

— Represents zero. <sup>1</sup> Record through 1964. <sup>2</sup> City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; Local Climatological Data. Monthly with annual summary.

## No. 272. AVERAGE RELATIVE HUMIDITY,

[Airport data except as noted. Eastern standard time. For period of record through 1966, except as noted. Relative humidity observations were

STATION	Length of rec- ord (yrs.)	JAN.		FEB.		MAR.		APR.		MAY		JUNE		
		7:00 a.m.	1:00 p.m.											
Ala.....Mobile.....	4	80	64	78	57	82	56	90	56	88	53	89	56	
Alaska.....Juneau.....	23	80	80	83	81	83	78	86	73	89	73	88	74	
Ariz.....Phoenix.....	6	66	45	61	39	58	34	45	24	37	18	36	18	
Ark.....Little Rock.....	6	81	53	81	57	77	54	81	55	87	56	87	54	
Calif.....Los Angeles.....	7	63	49	68	54	77	59	79	61	80	64	84	70	
	Sacramento.....	6	91	83	86	79	85	70	85	61	84	54	78	48
	San Francisco <sup>1</sup> .....	23	87	78	86	75	84	69	86	69	87	67	88	66
Colo.....Denver.....	6	59	42	63	47	69	42	65	35	66	36	72	40	
Conn.....Hartford.....	7	74	58	75	58	75	54	72	45	46	45	73	50	
Del.....Wilmington.....	19	76	61	76	60	75	54	74	52	77	53	78	52	
D.C.....Washington.....	6	69	54	71	56	69	48	70	49	72	49	75	51	
Fla.....Jacksonville.....	30	87	56	86	53	85	49	84	47	83	48	85	55	
	Miami <sup>2</sup> .....	22	86	56	86	57	83	56	80	56	81	59	84	64
Ga.....Atlanta.....	6	77	59	78	59	79	53	82	55	84	55	87	61	
Hawaii.....Honolulu <sup>1</sup> .....	16	80	80	78	78	77	75	75	71	75	69	74	68	
Idaho.....Boise.....	27	82	75	82	70	75	56	72	48	72	47	70	44	
Ill.....Chicago <sup>1</sup> .....	20	80	70	80	68	78	61	75	53	74	53	76	53	
	Peoria.....	7	77	68	81	67	84	67	81	59	82	58	82	56
Ind.....Indianapolis.....	7	79	67	79	67	80	66	77	57	82	58	82	55	
Iowa.....Des Moines.....	5	79	71	85	74	86	70	83	60	82	60	84	60	
Kans.....Wichita.....	13	80	63	81	61	77	52	78	51	83	55	84	54	
Ky.....Louisville.....	6	78	64	79	64	77	62	76	54	84	56	87	58	
La.....New Orleans.....	18	87	67	87	65	84	59	88	60	90	60	90	63	
Maine.....Portland.....	26	79	64	79	61	76	59	75	56	75	57	77	59	
Md.....Baltimore.....	13	73	57	75	58	73	51	73	50	76	51	78	52	
Mass.....Boston <sup>2</sup> .....	12	69	58	71	59	69	56	69	54	68	54	70	55	
Mich.....Detroit.....	33 <sup>3</sup>	82	80	70	80	67	79	61	75	53	71	51	74	53
	Sault Ste. Marie.....	25	84	77	84	74	84	68	81	61	80	57	85	61
Minn.....Duluth.....	5	72	63	73	61	77	61	78	57	76	55	81	59	
	Minneapolis-St. Paul.....	7	75	67	77	66	81	67	80	57	77	56	81	55
Miss.....Jackson <sup>1</sup> .....	7	88	61	84	61	82	55	86	54	88	55	90	58	
Mo.....Kansas City.....	6	72	58	73	59	72	54	72	50	75	52	81	60	
Mont.....St. Louis.....	6	77	60	75	57	76	55	73	52	77	53	80	55	
	Great Falls.....	5	68	63	69	61	67	56	71	51	71	47	74	46
Nebr.....Omaha <sup>1</sup> .....	8	78	66	81	66	79	60	75	47	78	52	82	55	
Nev.....Reno <sup>1</sup> .....	24	81	67	80	61	76	46	73	37	75	35	75	31	
N.H.....Concord <sup>2</sup> .....	23	78	59	77	56	76	53	74	48	74	47	77	50	
N.J.....Atlantic City <sup>2</sup> .....	5	77	58	77	58	77	52	73	46	77	49	81	53	
N. Mex.....Albuquerque.....	6	67	49	67	46	54	32	47	26	44	23	45	24	
N.Y.....Albany.....	18	78	65	78	62	77	57	73	50	73	50	76	51	
	Buffalo.....	6	75	72	78	71	80	68	78	62	76	55	77	57
	New York <sup>4</sup> .....	47	68	60	68	59	67	55	68	53	71	53	73	55
N.C.....Charlotte.....	6	78	54	78	56	81	51	82	49	84	51	88	57	
N. Dak.....Bismarck.....	19	81	56	81	54	79	49	79	46	82	51	84	53	
Ohio.....Cincinnati <sup>4</sup> .....	14	81	69	80	64	77	57	75	53	78	52	81	54	
	Cleveland.....	6	79	71	81	73	80	68	77	60	77	56	80	57
	Columbus.....	7	76	66	79	67	79	60	77	55	79	54	80	51
Oklahoma.....Oklahoma City.....	10	81	63	81	62	77	55	78	52	86	53	87	59	
Oreg.....Portland.....	26	86	82	87	80	86	71	87	68	86	66	85	65	
Pa.....Philadelphia.....	7	74	59	73	59	72	54	71	50	77	52	75	52	
R.I.....Pittsburgh.....	7	77	67	78	67	77	61	75	55	77	52	82	52	
S.C.....Providence <sup>1</sup> .....	9	70	57	73	57	71	52	72	52	71	53	77	56	
S. Dak.....Sioux Falls <sup>1</sup> .....	19	85	54	85	52	83	48	81	45	82	46	83	49	
Tenn.....Memphis.....	27	81	64	81	62	79	57	80	54	82	55	84	56	
	Nashville.....	25	83	67	83	62	81	57	81	50	84	53	84	53
Tex.....Dallas.....	7	77	59	77	57	74	54	79	55	85	59	83	56	
	El Paso.....	6	60	42	51	35	45	30	33	22	37	22	42	26
	Houston.....	6	84	65	86	62	88	59	89	63	91	61	91	61
Utah.....Salt Lake City.....	7	79	71	79	66	72	52	67	43	63	36	60	30	
Vt.....Burlington <sup>2</sup> .....	22	79	67	77	65	76	60	74	54	72	53	78	55	
Va.....Norfolk.....	18	77	60	77	59	74	54	75	52	78	57	79	57	
	Richmond.....	32	81	57	80	53	78	48	75	46	78	49	81	53
Wash.....Seattle-Tacoma.....	7	81	80	80	77	81	74	86	73	85	71	84	67	
	Spokane.....	7	84	82	83	78	78	67	80	56	76	51	73	47
W. Va.....Charleston.....	19	77	62	77	60	74	53	76	49	82	49	86	54	
	Milwaukee.....	6	76	69	78	69	85	72	80	63	79	60	81	58
Wyo.....Cheyenne.....	7	54	44	62	48	65	47	66	41	68	38	72	42	
P.R.....San Juan.....	11	86	66	83	63	81	60	80	65	82	67	82	68	

<sup>1</sup> Record through 1964. <sup>2</sup> Record through 1965. <sup>3</sup> Slash numbers represent AM/P.M.<sup>4</sup> City office data. <sup>5</sup> Record through 1961.

# Humidity

187

## PERCENT—SELECTED CITIES

Hours selected to give, for most of country, approximation of average highest and average lowest humidity values made on the half-hour prior to 1957]

JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		ANNUAL		STATION
7:00 a.m.	1:00 p.m.													
89	63	90	62	85	60	83	51	84	56	82	62	85	58	Ala.... Mobile.
89	79	90	82	91	86	89	86	85	84	82	82	86	80	Alaska... Juneau.
48	29	59	37	60	37	53	28	63	40	68	49	54	33	Ariz.... Phoenix.
88	58	89	56	90	59	86	48	84	57	81	61	84	58	Ark.... Little Rock.
85	67	85	68	82	63	79	59	76	61	72	56	77	61	Calif.... Los Angeles.
77	48	77	51	77	52	78	58	87	78	92	89	83	65	Sacramento.
90	69	90	70	87	68	80	69	86	72	87	77	87	71	San Francisco. <sup>1</sup>
69	33	69	37	72	41	59	30	68	43	64	44	66	39	Colo.... Denver.
80	50	85	54	87	54	86	49	79	35	80	63	79	53	Conn.... Hartford.
80	52	84	56	86	55	85	53	82	56	78	60	79	55	Del.... Wilmington.
75	50	78	52	80	56	79	48	74	51	71	57	73	52	D.C.... Washington.
86	57	90	59	91	62	90	57	88	55	88	58	87	55	Fla.... Jacksonville.
84	64	86	63	88	66	88	63	87	61	86	59	85	60	Miami. <sup>2</sup>
91	68	91	62	88	60	82	49	83	55	80	60	83	58	Ga.... Atlanta.
74	69	75	70	74	70	76	72	77	73	77	76	76	73	Hawaii... Honolulu. <sup>1</sup>
53	34	52	36	59	40	68	49	80	67	84	76	71	53	Idaho... Boise.
78	52	82	53	81	50	80	52	79	62	80	68	79	58	Ill.... Chicago. <sup>1</sup>
86	59	87	58	88	59	85	55	83	65	82	71	83	62	Peoria.
87	60	89	60	88	56	84	54	84	65	81	71	83	61	Ind.... Indianapolis.
84	60	87	59	88	65	78	52	82	64	83	71	83	64	Iowa... Des Moines.
80	51	80	50	81	55	80	52	78	54	80	61	80	55	Kans.... Wichita.
89	59	88	55	90	59	85	52	81	62	77	65	83	59	Ky.... Louisville.
91	66	92	66	90	65	87	58	85	59	86	67	88	63	La.... New Orleans.
80	58	84	59	86	60	85	59	85	64	81	62	80	60	Maine... Portland.
80	52	84	55	85	56	83	52	78	53	76	53	78	54	Md.... Baltimore.
72	54	76	57	78	57	77	55	75	58	69	57	72	56	Mass... Boston. <sup>2</sup>
75	50	81	53	83	54	82	54	80	64	80	70	78	58	Mich.... Detroit.
88	61	91	62	92	67	89	65	87	76	85	78	86	67	Sault Ste. Marie.
85	59	88	66	87	64	80	57	80	69	77	71	80	62	Minn... Duluth.
85	56	87	58	89	64	82	56	83	66	78	70	81	61	Minneapolis-St. Paul.
90	57	92	56	91	58	90	54	85	55	85	61	87	57	Miss.... Jackson. <sup>1</sup>
79	59	80	57	82	59	70	46	73	55	73	60	75	56	Mo.... Kansas City.
84	57	86	54	88	56	79	48	81	58	80	63	80	56	St. Louis.
69	39	64	38	69	49	58	42	63	53	66	61	67	50	Mont... Great Falls.
85	54	85	56	83	55	81	52	78	59	78	64	80	57	Neb.... Omaha. <sup>1</sup>
72	26	73	27	75	32	77	42	80	55	82	68	77	44	Nev.... Reno. <sup>1</sup>
80	50	86	52	88	53	86	51	83	59	78	59	80	53	N.H.... Concord. <sup>2</sup>
83	55	87	58	87	57	85	52	83	55	78	59	80	54	N.J.... Atlantic City. <sup>2</sup>
61	36	63	39	54	44	56	36	65	45	69	52	58	39	N.Mex... Albuquerque.
77	50	84	53	87	54	86	54	81	62	80	66	79	56	N.Y.... Albany.
79	55	84	62	81	59	80	59	81	68	80	72	79	63	Buffalo.
75	55	78	58	80	58	76	55	73	59	69	60	72	57	New York. <sup>4</sup>
89	57	91	59	90	56	87	48	84	51	80	56	84	54	N.C.... Charlotte.
87	56	91	57	90	58	90	53	80	51	76	54	83	53	Raleigh. <sup>2</sup>
82	50	78	43	82	49	75	43	75	57	72	64	77	54	N.Dak. Bismarck.
84	54	87	52	85	50	83	52	78	58	80	66	81	57	Ohio... Cincinnati. <sup>4</sup>
82	55	86	61	83	59	78	56	79	66	79	73	80	63	Cleveland.
84	54	88	56	89	57	82	52	82	63	79	69	81	59	哥伦布。
84	54	83	51	85	56	82	53	79	54	79	61	82	56	Oklahoma City.
84	63	85	66	88	67	91	80	89	82	88	84	87	73	Oreg.... Portland.
78	52	80	55	83	57	81	51	77	55	74	59	76	55	Pa.... Philadelphia.
84	51	87	55	87	56	80	48	79	59	79	68	80	57	Pittsburgh.
80	57	82	59	84	58	83	56	78	56	73	58	76	56	R.I.... Providence. <sup>1</sup>
86	52	89	53	90	55	90	49	88	47	85	52	86	50	S.C.... Columbia.
84	52	86	53	80	50	76	50	75	56	75	64	78	56	S. Dak. Sioux Falls. <sup>1</sup>
85	57	87	55	86	54	84	50	81	55	80	62	82	57	Tenn.... Memphis.
86	55	89	55	89	52	88	52	84	58	84	65	85	57	Nashville.
78	51	79	52	83	57	81	52	82	58	79	61	80	56	Tex.... Dallas.
56	40	58	41	67	50	56	33	59	40	64	46	52	35	El Paso.
01	58	91	59	89	60	87	53	86	61	86	65	88	61	Houston.
49	24	56	29	63	36	67	39	75	59	81	74	68	47	Utah... Salt Lake City.
77	54	81	56	83	59	83	59	81	68	79	68	78	60	Vt.... Burlington. <sup>2</sup>
82	59	85	63	84	62	84	61	81	56	77	58	79	58	Va.... Norfolk.
85	56	88	57	89	56	89	52	84	50	82	54	82	53	Richmond.
86	67	86	72	88	76	89	82	85	82	85	84	85	75	Wash... Seattle-Tacoma.
61	38	63	45	68	48	80	67	88	83	88	86	76	62	Spokane.
89	61	91	55	90	52	88	52	79	55	78	61	82	55	W. Va. Charleston.
83	60	87	62	87	62	80	62	80	67	80	73	81	65	Wis.... Milwaukee.
70	33	67	35	69	39	57	33	58	40	57	44	64	40	Wyoming... Cheyenne.
81	68	83	67	84	68	85	67	85	67	85	66	83	66	P.R.... San Juan.

Source: Dept. of Commerce, Environmental Science Services Administration; *Local Climatological Data*. Monthly with annual summary.

## No. 273. AVERAGE PERCENTAGE OF POSSIBLE SUNSHINE—SELECTED CITIES

[Airport data, for period of record through 1966, except as noted]

STATION	Length of record (yrs.)	AVERAGE PERCENTAGE OF POSSIBLE SUNSHINE													
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	
Ala. ....	Mobile <sup>1</sup> .....	47	49	51	57	65	69	67	61	63	64	72	62	48	61
Alaska. ....	Juneau .....	21	30	31	37	39	37	33	30	31	25	18	23	18	31
Ariz. ....	Phoenix .....	71	77	79	83	88	93	94	84	85	89	88	84	77	86
Ark. ....	Little Rock .....	24	44	51	55	59	65	70	68	71	67	70	56	47	62
Calif. ....	Los Angeles <sup>2</sup> .....	26	72	72	73	67	66	67	81	82	79	74	76	71	73
	Sacramento .....	18	44	62	69	70	84	92	97	95	93	86	64	43	78
	San Francisco <sup>2</sup> .....	30	56	62	68	71	71	73	65	65	71	70	63	53	66
Colo. ....	Denver .....	17	73	70	70	65	64	71	72	73	75	76	66	69	70
Conn. ....	Hartford .....	12	56	54	57	53	59	60	62	62	59	59	54	51	58
Del. ....	Wilmington .....	24	50	54	57	57	59	64	63	61	60	60	53	49	58
D.C. ....	Washington .....	18	49	51	56	54	58	66	64	62	62	62	53	49	58
Fla. ....	Jacksonville .....	16	58	61	64	71	69	60	59	58	48	56	59	55	66
	Miami <sup>3</sup> .....	22	68	74	74	72	68	62	62	63	58	59	66	65	66
Ga. ....	Atlanta .....	32	48	52	56	56	65	69	66	62	66	64	68	58	49
Hawaii. ....	Honolulu .....	14	66	65	71	71	72	74	76	78	76	68	61	60	70
Idaho. ....	Boise .....	27	42	50	61	68	69	75	89	86	82	68	47	40	67
Ill. ....	Chicago .....	24	44	47	51	53	62	68	70	68	64	63	43	42	58
Ind. ....	Peoria .....	23	45	48	51	55	61	66	69	67	65	65	47	42	60
Iowa. ....	Indianapolis .....	24	41	51	52	55	63	69	72	73	70	68	46	43	60
Kans. ....	Des Moines .....	16	51	54	54	55	61	66	71	70	65	67	54	47	60
Kans. ....	Wichita .....	13	60	58	61	60	63	70	74	74	69	70	63	59	66
Ky. ....	Louisville .....	19	40	45	49	54	64	68	67	69	67	64	49	41	58
La. ....	New Orleans <sup>2</sup> .....	46	49	51	57	65	69	67	61	63	64	72	62	48	61
Maine. ....	Portland .....	26	55	60	59	56	57	62	66	65	63	59	47	55	59
Md. ....	Baltimore .....	16	52	54	56	54	58	65	67	62	62	63	53	50	59
Mass. ....	Boston .....	31	52	57	58	55	59	64	66	66	64	61	53	54	60
Mich. ....	Detroit .....	32	32	43	49	52	59	65	70	65	61	56	35	32	46
	Sault Ste. Marie .....	25	34	43	52	53	54	58	63	57	44	44	23	26	46
Minn. ....	Duluth .....	16	52	55	58	54	56	62	67	60	51	53	37	43	55
	Minneapolis .....														
	St. Paul .....	28	51	57	53	55	58	62	69	66	59	59	41	42	58
Miss. ....	Jackson <sup>3</sup> .....	7	44	43	54	61	67	62	67	67	60	59	51	47	56
Mo. ....	Kansas City .....	33	53	56	57	59	63	69	76	73	69	69	59	51	64
	St. Louis .....	8	51	48	52	52	63	63	71	69	63	65	53	47	64
Mont. ....	Great Falls .....	25	52	59	67	63	64	65	80	77	67	62	47	49	64
Nebr. ....	Omaha .....	31	56	55	53	58	61	66	76	71	67	69	54	49	62
Nev. ....	Reno .....	24	66	70	74	79	78	84	92	93	91	82	72	63	54
N.H. ....	Concord .....	25	49	53	51	50	53	58	62	59	55	54	42	48	54
N.J. ....	Atlantic City .....	6	58	52	56	59	59	62	65	62	60	66	58	48	58
N. Mex. ....	Albuquerque .....	27	72	73	74	76	80	84	76	76	81	80	78	72	77
N.Y. ....	Albany .....	28	45	51	53	52	56	61	64	61	58	55	38	39	54
	Buffalo .....	23	33	39	47	51	56	60	68	70	66	61	51	39	60
	New York <sup>2</sup> .....	90	50	55	57	59	62	65	66	66	64	63	61	55	60
N.C. ....	Charlotte .....	16	56	57	61	67	69	70	69	71	68	71	63	60	66
	Raleigh .....	12	58	57	63	61	60	59	63	60	60	64	62	58	60
N. Dak. ....	Bismarck .....	27	55	56	58	58	61	63	75	72	64	62	46	49	61
Ohio. ....	Cincinnati <sup>2</sup> .....	51	42	45	50	55	62	68	71	68	67	60	47	40	52
	Cleveland .....	25	30	35	44	51	60	67	68	65	65	61	56	33	28
Oklahoma. ....	Oklahoma City .....	14	60	60	64	62	65	74	76	79	73	70	68	60	68
Oreg. ....	Portland .....	17	24	32	37	47	51	47	67	61	58	38	29	21	45
Pa. ....	Philadelphia .....	24	50	54	57	56	59	64	63	62	60	61	54	52	58
	Pittsburgh .....	14	40	39	48	49	57	64	66	64	66	61	47	37	54
R.I. ....	Providence .....	13	56	56	58	54	54	60	61	62	58	58	60	53	54
S.C. ....	Columbia .....	13	60	59	63	67	67	64	64	70	64	68	65	63	64
S. Dak. ....	Sioux Falls <sup>1</sup> .....	25	54	59	55	60	63	67	77	74	67	65	52	48	63
Tenn. ....	Memphis .....	16	48	53	56	62	71	73	74	77	72	73	59	50	65
	Nashville .....	25	40	46	51	58	62	68	65	66	64	65	52	41	58
Tex. ....	Dallas .....	26	50	52	58	57	61	73	77	77	72	67	62	54	65
	El Paso .....	24	77	81	83	86	89	89	89	80	82	84	83	77	83
	Houston .....	5	50	57	59	56	62	74	78	73	68	75	63	52	64
Utah. ....	Salt Lake City .....	29	48	53	62	66	72	78	83	82	83	74	55	45	69
Vt. ....	Burlington .....	23	39	46	52	48	55	60	63	61	55	49	30	33	51
Va. ....	Norfolk .....	13	57	55	61	63	65	65	64	62	62	61	62	58	61
	Richmond .....	16	52	53	58	60	64	67	67	63	64	62	55	52	60
Wash. ....	Seattle <sup>2</sup> .....	31	28	34	42	47	52	49	63	56	53	37	28	23	45
	Spokane .....	19	26	39	54	62	63	66	81	76	71	52	29	20	57
W. Va. ....	Charleston <sup>1</sup> .....	68	31	38	42	49	56	60	62	60	60	54	37	29	48
Wis. ....	Milwaukee .....	26	44	44	50	54	59	64	71	67	61	59	42	40	56
Wyo. ....	Cheyenne .....	31	62	64	64	59	58	65	69	67	70	62	59	44	64
P.R. ....	San Juan .....	11	66	67	72	66	59	57	64	65	55	62	61	59	63

<sup>1</sup> Data not available; figures are for a nearby station.<sup>2</sup> City office data.<sup>3</sup> Record through 1964. <sup>4</sup> Record through 1963.

## No. 274. AVERAGE WIND SPEED—SELECTED CITIES

[In miles per hour. Airport data unless otherwise noted. For period of record through 1966, except as noted]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala. .... Mobile	18	11.4	11.8	11.8	11.1	9.4	8.2	7.4	7.2	8.7	8.9	10.2	10.7	9.7
Alaska .... Juneau	23	8.4	8.5	8.9	8.8	8.3	7.9	7.7	7.6	8.0	9.5	8.9	9.6	8.5
Ariz. .... Phoenix	21	4.6	5.3	6.0	6.2	6.3	6.3	6.5	6.0	5.7	5.1	4.7	4.5	5.6
Ark. .... Little Rock	24	8.9	9.3	10.2	9.7	8.2	7.7	7.0	6.7	7.1	6.9	8.2	8.5	8.2
Calif. .... Los Angeles	18	6.5	7.1	7.7	8.1	8.0	7.6	7.2	7.2	6.8	6.4	6.3	6.3	7.1
Calif. .... Sacramento	18	8.5	8.6	9.4	9.2	9.8	10.5	9.6	9.1	8.3	7.2	6.8	7.3	8.7
Calif. .... San Francisco	39	6.9	8.5	10.2	12.0	13.1	14.0	13.0	12.8	11.0	9.2	7.0	6.5	10.4
Colo. .... Denver	18	9.6	9.7	10.3	10.6	9.9	9.4	8.8	8.5	8.4	8.4	9.1	9.4	9.3
Conn. .... Hartford	12	9.6	9.9	10.4	10.5	9.6	8.4	7.9	7.8	8.0	8.6	9.1	9.0	9.1
Del. .... Wilmington	18	9.8	10.2	11.2	10.4	8.8	8.2	7.6	7.3	7.9	8.0	8.9	8.9	8.9
D.C. .... Washington	18	10.4	11.5	11.2	10.7	9.4	9.0	8.4	8.3	8.5	8.7	9.3	9.5	9.5
Fla. .... Jacksonville	17	8.7	9.9	9.7	9.6	9.0	8.7	8.1	7.7	9.1	9.1	8.6	8.3	8.9
Fla. .... Miami	17	9.2	10.0	10.1	10.5	9.2	8.2	7.8	7.4	8.2	8.9	9.1	8.6	8.9
Ga. .... Atlanta	28	11.0	11.1	11.3	10.4	8.7	8.1	7.5	7.2	8.2	8.5	9.3	10.0	9.3
Hawaii .... Honolulu	17	10.1	10.6	11.1	11.7	12.3	12.8	13.4	13.4	11.5	10.7	11.0	10.9	11.6
Idaho .... Boise	27	8.6	9.5	10.5	10.2	9.6	9.1	8.5	8.3	8.3	8.7	8.7	8.3	9.1
Ill. .... Chicago	24	11.3	11.5	11.7	11.8	10.4	9.1	8.0	7.8	8.8	9.6	11.4	11.1	10.2
Ind. .... Indianapolis	23	11.2	11.6	12.4	12.4	10.6	9.2	8.2	8.0	9.0	9.6	11.5	11.0	10.4
Iowa .... Des Moines	18	11.5	11.3	12.3	12.1	10.1	8.5	7.5	7.3	8.3	9.2	11.2	10.8	10.0
Kans. .... Wichita	13	12.8	13.3	14.8	14.6	13.7	12.0	10.7	9.2	8.9	10.0	10.8	12.4	11.4
Ky. .... Louisville	19	9.7	9.6	10.4	10.1	7.9	7.1	6.6	6.1	6.8	7.0	9.0	9.2	8.3
La. .... New Orleans	18	9.7	10.4	10.4	9.8	8.3	7.1	6.4	6.3	7.7	7.8	9.1	9.3	8.5
Maine .... Portland	26	9.5	9.6	10.2	10.1	9.2	8.3	7.7	7.6	8.0	8.7	9.0	9.0	8.9
Md. .... Baltimore	16	10.4	10.9	11.7	11.5	10.0	9.3	8.8	8.9	9.0	9.6	9.8	9.6	10.0
Mass. .... Boston	9	14.9	14.4	14.4	13.3	12.5	11.8	11.1	11.0	11.5	12.5	13.3	14.0	12.9
Mich. .... Detroit	33	11.5	11.4	11.5	11.1	9.9	9.0	8.3	8.1	8.9	9.5	11.4	11.2	10.2
Mich. .... Sault Ste. Marie	25	10.3	10.8	11.1	10.6	9.2	8.5	8.5	8.4	9.3	9.8	10.6	10.3	9.9
Minn. .... Duluth	17	12.4	12.5	12.7	14.0	12.9	11.1	10.1	10.1	11.3	12.0	13.0	12.0	12.0
Minn. .... Minneapolis-St. Paul	28	10.4	10.7	11.5	12.6	11.7	10.8	9.3	9.1	10.1	10.5	11.3	10.5	10.7
Miss. .... Jackson	7	7.7	8.0	8.2	7.7	6.2	5.4	4.9	4.6	5.6	5.3	6.8	7.1	6.5
Mo. .... Kansas City	27	9.9	10.3	11.7	11.5	10.4	10.0	8.9	8.8	9.1	9.0	10.3	9.9	10.0
Mont. .... Great Falls	25	16.3	15.5	13.7	13.4	11.8	11.6	10.4	10.7	11.8	14.0	16.5	16.4	13.4
Nebr. .... Omaha	31	11.2	11.6	13.0	13.5	11.8	10.8	9.3	9.4	10.0	10.2	11.5	11.0	11.1
Nev. .... Reno	24	6.1	6.3	7.7	7.9	7.7	7.3	6.6	6.3	5.5	5.4	5.2	5.1	6.4
N.H. .... Concord	25	7.4	7.9	8.2	7.7	7.1	6.3	5.6	5.2	5.4	6.0	6.6	6.9	6.7
N.J. .... Atlantic City	8	13.0	12.2	12.6	12.3	10.7	9.9	9.5	8.9	9.7	10.5	11.8	11.2	11.0
N.Mex. .... Albuquerque	27	7.8	8.7	9.9	10.8	10.4	9.8	9.8	9.9	8.3	7.9	7.6	7.3	8.8
N.Y. .... Albany	28	9.8	10.3	10.4	10.4	9.0	8.1	7.3	7.0	7.3	8.0	8.9	8.9	8.8
N.Y. .... Buffalo	27	14.7	14.4	14.2	13.8	12.2	11.5	10.8	10.4	11.0	11.7	13.4	13.9	12.6
N.C. .... New York <sup>2</sup>	47	11.0	11.0	11.2	10.6	9.0	8.3	7.8	7.8	8.3	9.2	10.1	10.5	9.6
N.C. .... Charlotte	17	8.2	8.4	8.9	9.1	7.5	6.8	6.6	6.6	7.1	7.2	7.4	7.3	7.6
N. Dak. .... Bismarck	27	10.1	11.2	12.9	12.7	11.5	9.8	10.0	10.6	10.7	10.7	9.7	10.8	10.8
Ohio .... Cincinnati <sup>1</sup>	43	8.3	8.4	9.0	8.4	6.7	6.4	5.4	5.2	5.4	6.1	7.7	7.9	7.1
Ohio .... Cleveland	25	12.5	12.4	12.8	12.2	10.6	9.5	8.9	8.5	9.3	10.2	12.4	12.5	11.0
Oklahoma .... Columbus	17	10.0	10.0	10.6	10.0	8.3	7.1	6.4	6.1	6.5	7.3	9.3	9.4	8.4
Oklahoma .... Oklahoma City	18	14.3	14.4	15.9	15.7	14.2	13.5	11.9	11.5	12.1	12.6	13.1	13.4	13.6
Oreg. .... Portland	18	10.0	8.8	8.5	7.2	6.8	6.8	7.4	6.9	6.1	6.3	8.3	9.6	7.7
Pa. .... Philadelphia	26	10.4	11.0	11.5	11.0	9.6	8.8	8.1	7.8	8.2	8.8	9.6	9.9	9.6
P.R.I. .... Pittsburgh	14	10.8	11.2	10.8	9.3	8.2	8.2	7.6	7.4	7.8	8.6	10.1	10.6	9.4
R.I. .... Providence	13	12.1	11.8	12.5	12.7	11.5	10.5	9.9	9.8	10.1	10.3	10.9	11.0	11.1
S.C. .... Columbia	18	7.1	7.7	8.4	8.7	7.0	6.9	6.8	6.1	6.4	6.1	6.4	6.5	7.0
S.Dak. .... Sioux Falls	18	10.8	10.9	11.6	11.1	10.0	9.0	8.1	7.6	7.1	7.7	7.8	9.5	10.0
Tenn. .... Memphis	18	10.9	10.6	11.4	11.0	9.0	8.1	7.6	7.1	7.7	8.6	10.1	10.0	9.2
Tenn. .... Nashville	25	9.0	9.1	9.8	9.3	7.3	6.7	6.2	5.9	6.2	7.2	8.2	8.5	7.7
Tex. .... Dallas	26	10.5	11.8	12.8	13.3	12.3	12.1	10.1	9.7	9.5	9.2	10.2	10.3	10.9
Tex. .... El Paso	24	9.8	10.7	12.7	12.6	11.7	10.6	9.4	8.9	8.8	8.5	9.1	9.1	10.2
Tex. .... Houston	18	12.0	12.2	12.8	13.1	11.7	12.2	9.9	8.4	9.2	9.9	11.3	11.3	10.9
Utah .... Salt Lake City	37	7.4	8.2	9.1	9.4	9.4	9.3	9.4	9.5	9.0	8.4	7.7	7.2	8.7
Vt. .... Burlington	23	9.0	9.6	9.4	9.5	9.1	8.3	7.9	7.6	8.3	8.8	9.8	10.0	9.0
Va. .... Norfolk	18	11.9	12.1	12.5	12.0	10.1	9.4	8.7	8.7	9.7	10.6	10.8	10.9	10.6
Wash. .... Richmond	18	8.2	8.5	9.1	9.0	7.8	7.4	7.0	6.7	7.0	7.1	7.6	7.5	7.7
Wash. .... Seattle-Tacoma	18	10.5	10.6	10.9	10.5	9.8	9.5	8.9	8.5	8.6	9.4	9.8	10.4	9.8
W. Va. .... Spokane	19	8.1	8.7	9.3	9.3	8.4	8.3	7.8	7.6	7.5	7.6	7.8	8.2	8.3
Wis. .... Milwaukee	26	12.9	12.9	13.6	13.5	12.4	10.5	9.6	9.6	10.8	11.6	13.2	12.7	11.9
Wyo. .... Cheyenne	31	14.7	14.9	14.7	14.1	12.3	11.4	10.0	10.1	10.8	11.7	13.8	14.6	12.7
P.R. .... San Juan	11	8.4	9.1	9.3	8.9	8.3	8.7	9.6	7.4	6.5	7.2	8.3	8.4	8.4

<sup>1</sup> 1965 data.<sup>2</sup> City office data.

## No. 275. NORMAL MONTHLY AND ANNUAL DEGREE DAYS, 65° BASE—SELECTED CITIES

[Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960. For definition of "degree day," see text, p. 164]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	
Ala... Mobile	415	300	211	42	—	—	—	—	—	22	213	357	1,580	
Alaska... Juneau	1,287	1,070	1,073	810	601	381	301	338	483	725	921	1,185	9,075	
Ariz... Phoenix	474	328	217	75	—	—	—	—	—	22	234	415	1,765	
Ark... Little Rock	756	577	434	126	9	—	—	—	9	127	465	716	3,219	
Calif... Los Angeles	347	277	264	177	121	54	19	16	36	62	159	267	1,799	
	Sacramento	614	442	360	216	102	6	—	—	12	81	368	577	2,773
	San Francisco	508	395	363	279	214	123	81	78	60	143	306	462	3,012
Colo... Denver	1,132	938	887	558	288	66	6	9	117	428	819	1,035	6,283	
Conn... Hartford	1,209	1,061	899	495	177	24	—	—	6	99	372	711	1,119	
Del... Wilmington	980	874	735	387	112	6	—	—	51	270	588	927	4,930	
D.C... Washington	871	762	626	288	74	—	—	—	33	217	519	834	4,224	
Fla... Jacksonville	332	246	174	21	—	—	—	—	—	12	144	310	1,239	
	Miami	74	56	19	—	—	—	—	—	—	—	65	214	
Ga... Atlanta	639	529	437	168	25	—	—	—	18	127	414	626	2,983	
Hawaii... Honolulu	—	—	—	—	—	—	—	—	—	—	—	—	—	
Idaho... Boise	1,113	854	722	438	245	81	—	—	132	415	792	1,017	5,809	
Ill... Chicago	1,209	1,044	890	480	211	48	—	—	81	226	753	1,113	6,155	
	Peoria	1,218	1,025	849	426	183	33	—	6	87	326	759	1,113	6,025
Ind... Indianapolis	1,113	949	809	432	177	39	—	—	90	316	723	1,051	5,699	
Iowa... Des Moines	1,398	1,165	967	489	211	39	—	9	99	363	837	1,231	6,808	
Kans... Wichita	1,023	804	645	270	87	6	—	—	33	229	618	905	4,620	
Ky... Louisville	930	818	682	315	105	9	—	—	54	248	609	890	4,660	
La... New Orleans	363	258	192	39	—	—	—	—	19	192	322	1,885		
Maine... Portland	1,330	1,182	1,042	675	372	111	12	53	195	508	807	1,215	7,511	
Md... Baltimore	936	820	679	327	90	—	—	—	48	264	585	905	4,654	
Mass... Boston	1,088	972	846	513	208	36	—	9	60	316	603	983	5,634	
Mich... Detroit	1,181	1,058	936	522	220	42	—	—	87	360	738	1,088	6,232	
	Sault Ste. Marie	1,525	1,380	1,277	810	477	201	96	105	279	580	951	1,367	9,048
Minn... Duluth	1,745	1,518	1,355	840	490	198	71	109	330	632	1,131	1,581	10,000	
	Minneapolis-St. Paul	1,631	1,380	1,166	621	288	81	22	31	189	505	1,014	1,454	8,382
Miss... Jackson	547	419	308	78	—	—	—	—	59	302	490	2,203		
Mo... Kansas City	1,082	818	682	294	109	—	—	—	39	220	612	905	4,711	
	St. Louis	1,026	848	704	312	121	15	—	—	60	251	627	936	4,900
Mont... Great Falls	1,349	1,154	1,063	642	384	186	28	53	258	543	921	1,165	7,750	
Nebr... Omaha	1,324	1,078	871	405	164	30	—	6	90	326	783	1,141	6,218	
Nev... Reno	1,073	823	729	510	357	189	43	87	204	490	801	1,026	6,332	
N.H... Concord	1,358	1,184	1,082	636	298	75	6	50	177	505	822	1,240	7,383	
N.J... Atlantic City	936	848	741	420	133	15	—	—	39	251	549	880	4,812	
N.Mex... Albuquerque	930	703	595	288	81	—	—	—	12	229	642	888	4,348	
N.Y... Albany	1,311	1,156	992	564	239	45	—	19	138	440	777	1,194	6,875	
	Buffalo	1,256	1,145	1,039	645	329	78	19	37	141	440	777	1,156	7,062
	New York <sup>1</sup>	986	885	760	408	118	9	—	—	30	233	540	902	4,871
N.C... Charlotte	691	583	481	156	23	—	—	—	6	124	438	691	3,191	
	Raleigh	725	616	487	180	34	—	—	21	164	450	716	3,393	
N. Dak... Bismarck	1,708	1,442	1,203	645	329	117	34	28	222	577	1,083	1,463	8,851	
Ohio... Cincinnati	970	837	701	336	118	9	—	—	54	248	612	921	4,806	
	Cleveland	1,159	1,047	918	552	280	66	9	25	105	384	738	1,088	6,351
	Columbus	1,088	949	809	426	171	27	—	6	84	347	714	1,039	5,660
Okla... Oklahoma City	868	664	527	180	34	—	—	—	15	184	498	768	3,725	
Oreg... Portland	825	644	586	396	245	105	25	28	114	335	597	735	4,635	
Pa... Philadelphia	1,014	890	744	390	115	12	—	—	60	291	621	964	5,101	
	Pittsburgh	1,119	1,002	874	480	195	39	—	9	105	375	726	1,063	5,987
R.I... Providence	1,110	988	865	534	236	51	—	16	96	372	660	1,023	5,954	
S.C... Columbia	570	470	357	81	—	—	—	—	84	345	577	2,484		
S.Dak... Sioux Falls	1,544	1,285	1,082	573	270	78	19	25	163	462	972	1,361	7,839	
Tenn... Memphis	729	585	456	147	22	—	—	—	18	130	447	698	3,232	
	Nashville	778	644	512	189	40	—	—	30	158	495	732	3,678	
Tex... Dallas	601	440	319	90	6	—	—	—	62	321	524	2,368		
	El Paso	685	445	319	105	—	—	—	84	414	648	2,700		
	Houston	884	288	192	36	—	—	—	6	183	307	1,396		
Utah... Salt Lake City	1,172	910	763	459	233	84	—	—	81	419	849	1,082	6,052	
Vt... Burlington	1,513	1,333	1,187	714	353	90	28	65	207	539	801	1,349	8,269	
Va... Norfolk	738	655	533	216	37	—	—	—	—	136	408	698	3,421	
	Richmond	815	703	546	219	53	—	—	36	214	495	784	3,865	
Wash... Seattle-Tacoma	828	678	657	474	295	159	56	62	162	391	633	755	5,145	
	Spokane	1,231	980	834	531	288	135	9	25	168	493	879	1,082	6,655
W.Va... Charleston	880	770	648	300	96	9	—	—	63	254	591	865	4,476	
Wis... Milwaukee	1,376	1,193	1,054	642	372	135	43	47	174	471	876	1,252	7,635	
Wyo... Cheyenne	1,228	1,056	1,011	672	381	102	19	31	210	543	924	1,101	7,278	
P.R... San Juan <sup>1</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	

<sup>—</sup> Represents zero. <sup>1</sup> City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; Local Climatological Data. Monthly with annual summary.

## Section 7

### Public Lands, Parks, Recreation, and Travel

Statistics in this section relate to the Federal public domain and other federally owned and leased real property, Indian lands, national parks and forests, State and municipal parks, domestic and foreign travel, and other forms of recreation.

Data on public lands are published primarily by the Department of the Interior, Bureau of Land Management, in *Public Land Statistics*. Data on federally owned land and real property are collected by the General Services Administration and presented in its annual *Inventory Report on Real Property Owned by the United States Throughout the World*. The Economic Research Service of the Department of Agriculture also issues statistics on land use and land ownership.

The Department of the Interior issues various reports relating to recreation, as follows: The National Park Service publishes information on national parks in its monthly report, *Public Use of National Parks*, and its annual report, *National Parks and Landmarks*, which also covers sites eligible for registry as natural or national historic landmarks and non-federally owned national historic sites. The Bureau of Outdoor Recreation, established in 1962, has not published statistical data on a regular basis. It is responsible for maintaining a continuing inventory of public and private recreation resources and for the preparation of a nationwide outdoor recreation plan that will provide data on the extent and availability of such resources in relation to public needs. The first plan is due for publication in 1968 and will be updated at 5-year intervals. The Fish and Wildlife Service compiles and releases data on sport fishing and hunting and on number and acreage of national wildlife refuges and fish hatcheries. Data for municipal parks and playgrounds, as well as for other outdoor recreational activities, are compiled by the National Recreation and Park Association, Washington, D.C., which issues its *Recreation and Park Yearbook* at 5-year intervals. The Department of Agriculture's Forest Service, in its *Annual Report of the Chief*, issues data on recreational uses of the national forests.

Figures on expenditures for recreation and on domestic and foreign travel, compiled by the Department of Commerce's Office of Business Economics, appear periodically in the monthly *Survey of Current Business*. Domestic travel data by volume and type were collected by the Bureau of the Census in its 1963 Census of Transportation and published in the *Passenger Transportation Survey*, Vol. I, *National Travel and Home-to-Work Travel*. Comparable data from the 1967 Census of Transportation, first issued in a series of preliminary reports, are scheduled for final publication in *National Travel Survey*, Vol. I. Foreign travel data based on analysis of passports (see table 137, p. 97 of this book) are published in the annual *Summary of Passport Statistics*, issued by the Department of State's Passport Office.

Few statistical series are available on activities of a cultural nature—art, music, theater, etc.—and those are generally based on infrequent and incomplete one-time studies by private agencies. The only continuing series in this field covers symphony orchestras, compiled by the American Symphony Orchestra League, Inc., Vienna, Va.

Other sources of data relating to individual sports and recreational activities appear in footnotes to table 302 and in the Guide to Sources in appendix III of this book.

**Public-domain and acquired lands.**—The U.S. Government acquired sovereignty over its present land area through a series of international agreements and treaties. At the time of acquisition of sovereignty over the areas involved (now 2,271 million acres) title to about 463 million acres rested in individual States and their political subdivisions or in private owners, and was not relinquished to the U.S. Government.

Title to the remaining land area passed to the U.S. Government. This area, except for lands in the District of Columbia, is known as the original public domain.

Public-domain lands or public lands are those Federally owned lands to which the public land laws apply. In general, these lands include that portion of the original public domain not disposed of under the public land laws, and certain other lands declared by the Congress specifically to be public lands. In addition to the original public domain, the U.S. Government has from time to time acquired, by purchase, condemnation, and gift, tracts of land needed for public purposes. Such lands are referred to as acquired lands.

**Indian lands.**—Indian lands are the private landholdings of individual Indians or Indian tribes that are subject to special restrictive provisions of Federal law administered by the Bureau of Indian Affairs. They have been set aside for Indian use by treaties, congressional acts, and executive orders. Although most of these lands are in reservations for specific tribes, there are groups of scattered off-reservation allotments in individual ownership and other small tracts of land occupied by Indian groups. Recreational facilities are increasingly being located and operated by Indians on Indian reservations.

**Entries, selections, patents, and certifications.**—The data on entries, selections, patents, and certifications refer to transactions which involve the disposal, under the public land laws (including the homestead laws), of Federal public lands to non-Federal owners. In general, original entries and selections are applications to secure title to public lands which have been accepted as properly filed. Some types of applications, however, are not reported until the final certificate is issued. Applications become final entries (perfected entries) upon issuance of a final certificate to the applicant after he has complied fully with the requirements of the laws relating to his application. A final certificate passes equitable title to the land to the applicant. Patents are instruments which pass legal title to the land to the applicant. Certifications are issued in lieu of patents in connection with certain State selections.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

#### NO. 276. AREA AND ACQUISITION OF THE PUBLIC DOMAIN: 1781 TO 1966

[In thousands of acres. Areas of acquisitions are as computed in 1912; hence do not agree with figures in square miles shown in table 243, which includes later adjustments and reflects subsequent remeasurement. See also *Historical Statistics, Colonial Times to 1957*, series J 3-9.]

YEAR	Estimated area <sup>1</sup>	YEAR	Estimated area <sup>1</sup>	YEAR AND ACQUISITION	Total	Land	Inland water
1802	200,000	1959	771,000	Aggregate.....	1,837,763	1,807,682	30,081
1850	1,200,000	1960	772,000				
1880	900,000	1961	768,000	1781-1802 (State Cessions).....	236,826	233,416	3,410
				1803, Louisiana Purchase <sup>2</sup> .....	529,912	523,446	6,465
				1819, Cession from Spain.....	46,145	43,343	3,202
1912	600,000	1962	771,000	Red River Basin <sup>3</sup> .....	29,602	29,067	535
1946	413,000	1963	770,000	1846, Oregon Compromise.....	183,386	180,644	2,742
1950	412,000	1964	771,000	1848, Mexican Cession <sup>2</sup> .....	338,681	334,479	4,202
1955	411,000	1965	766,000	1850, Purchase from Texas.....	78,927	78,843	84
1958	410,000	1966	765,000	1852, Gadsden Purchase.....	18,989	18,962	27
				1867, Alaska Purchase.....	375,296	365,482	9,814

<sup>1</sup> Comprises original public domain plus acquired lands. Estimated from imperfect data available for indicated years. Prior to 1959, excludes Alaska.

<sup>2</sup> Data for Louisiana Purchase exclude areas eliminated by Treaty of 1819 with Spain. Such areas are included in figures for Mexican Cession.

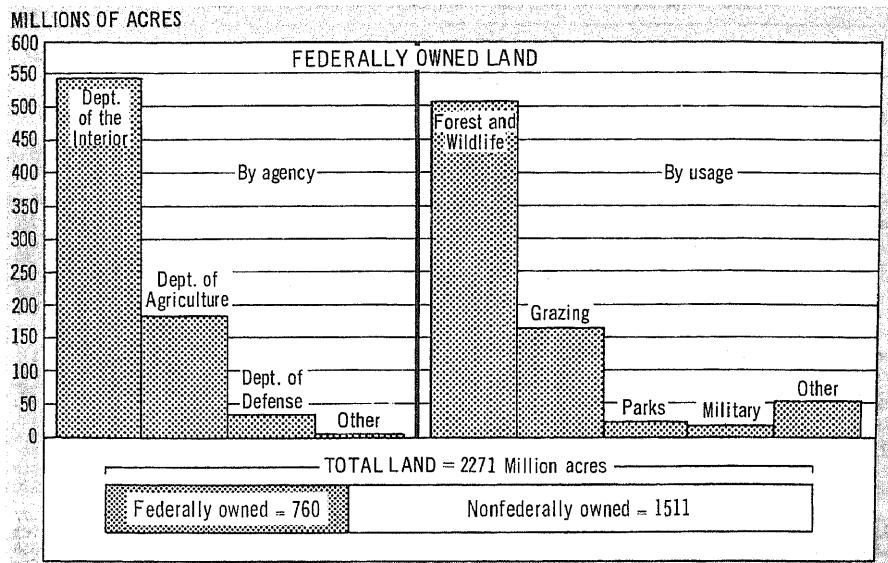
<sup>3</sup> Includes 33,920 acres subsequently recognized as part of State of Texas which is not a public-domain State.

<sup>4</sup> Represents drainage basin of Red River of the North, south of 49th parallel. Authorities differ as to method and exact date of its acquisition. Some hold it as part of Louisiana Purchase; others maintain it was acquired from Great Britain.

Source: Dept. of the Interior. Estimated area, Bureau of Land Management; all other data, Office of the Secretary, *Areas of Acquisitions to the Territory of the U.S.*, 1922.

FIG. X. LAND OWNED BY THE FEDERAL GOVERNMENT: 1967

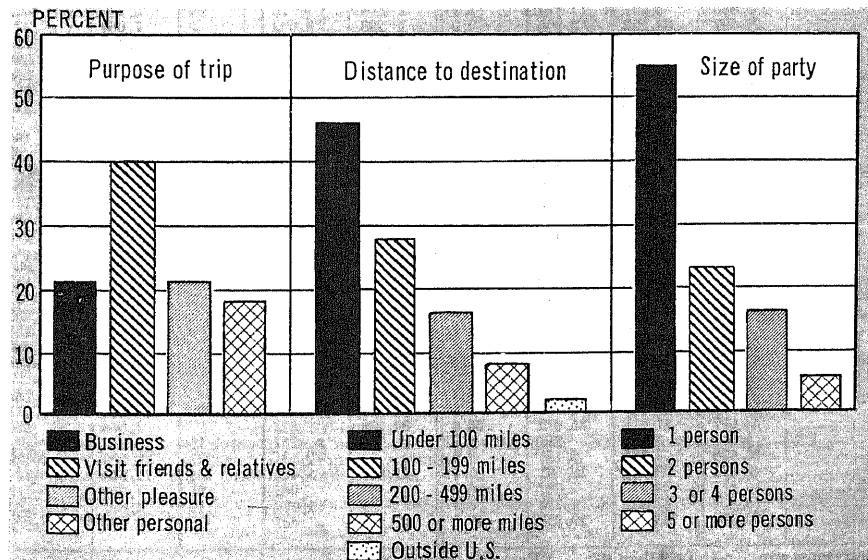
[See tables 277, 279, and 280]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from General Services Administration.

FIG. XI. NATIONAL TRAVEL—CHARACTERISTICS OF TRIPS: 1963

[See table 306]



Source: Dept. of Commerce, Bureau of the Census.

## Public Lands, Parks, Recreation, and Travel

No. 277. TOTAL LAND AND FEDERALLY OWNED LAND AND BUILDINGS, 1955 TO 1967,  
AND BY STATES, 1967

[Land in thousands of acres; cost in millions of dollars. As of June 30]

STATE	LAND						FEDERALLY OWNED BUILDINGS		
	Total	Not owned by Federal Govern- ment	Owned by Federal Government			Number	Cost		
			Total <sup>1</sup>	Acres	Percent				
1955 <sup>3</sup>	1,903,825	1,495,929	407,896	21.4	357,210	50,686	2,369	384,916	14,475
1960	2,273,407	1,501,894	771,512	33.9	720,004	51,508	2,956	405,443	19,916
1963	2,271,343	1,501,440	769,903	33.9	718,115	51,788	3,765	420,103	22,488
1964	2,271,343	1,500,829	770,514	33.9	717,944	52,570	3,980	425,790	23,244
1965	2,271,343	1,505,546	765,797	33.7	712,525	53,272	4,128	426,863	24,368
1966	2,271,343	1,503,581	764,762	33.7	710,821	53,941	4,393	423,634	25,529
1967									
Total	2,271,343	1,510,979	760,364	33.5	706,354	54,010	4,665	421,493	26,342
Ala.	32,678	31,585	1,093	3.3	27	1,066	61	8,457	527
Alaska	365,482	11,299	354,182	96.9	354,166	17	8,542	1,010	
Ariz.	72,683	40,110	32,578	44.8	32,272	306	17	10,644	351
Ark.	33,594	30,457	3,142	9.4	1,074	2,068	112	4,451	223
Calif.	100,207	55,805	44,401	44.3	42,157	2,244	369	50,704	3,068
Colo.	66,486	42,285	24,201	36.4	23,166	1,035	67	7,234	519
Conn.	3,135	3,126	9	0.3	-	9	35	2,041	148
Del.	1,266	1,230	36	2.9	-	36	7	905	77
D.C.	39	28	11	28.4	-	11	129	1,989	763
Fla.	34,721	31,331	3,390	9.8	323	3,067	110	13,734	856
Ga.	37,295	35,242	2,053	5.5	(Z)	2,053	112	13,818	600
Hawaii	4,106	3,708	397	9.7	-	397	26	11,928	515
Idaho	52,933	18,954	33,979	64.2	33,208	771	22	4,600	195
Ill.	35,795	35,293	502	1.4	(Z)	502	88	7,372	774
Ind.	23,158	22,747	411	1.8	(Z)	411	71	6,058	303
Iowa	35,860	35,655	206	0.6	(Z)	205	39	1,984	154
Kans.	52,511	51,851	660	1.3	27	633	195	8,189	419
Ky.	25,512	24,313	1,200	4.7	-	1,200	243	7,889	491
La.	28,868	27,894	1,044	3.6	22	1,021	58	5,258	324
Maine	19,848	19,719	129	0.6	-	129	8	3,558	239
Md.	6,319	6,182	187	3.0	-	187	52	12,154	1,144
Mass.	5,035	4,981	73	1.5	-	73	80	6,622	573
Mich.	36,492	33,192	3,300	9.0	298	3,002	33	7,064	392
Minn.	51,206	47,813	3,392	6.6	1,395	1,997	26	2,423	156
Miss.	30,223	28,658	1,564	5.2	7	1,558	62	4,833	248
Mo.	44,248	42,437	1,811	4.1	3	1,808	97	7,587	528
Mont.	93,271	65,609	27,662	29.7	25,215	2,447	34	6,354	182
Nebr.	49,032	48,326	705	1.4	252	453	59	3,863	225
Nev.	70,264	9,541	60,723	86.4	60,564	159	7	5,539	180
N.H.	5,769	5,064	705	12.2	-	705	26	1,051	68
N.J.	4,813	4,708	106	2.2	-	106	38	8,278	573
N. Mex.	77,766	51,216	26,550	34.1	24,984	1,566	30	11,731	588
N.Y.	30,681	30,449	232	0.8	-	232	151	11,024	1,181
N.C.	31,403	29,472	1,931	6.1	-	1,931	71	16,190	511
N. Dak.	44,452	42,351	2,101	4.7	209	1,893	102	4,106	209
Ohio	26,222	25,977	245	0.9	(Z)	245	117	5,027	960
Okl.	44,088	42,686	1,402	3.2	152	1,250	278	7,028	343
Oreg.	61,599	29,422	32,177	52.2	30,969	1,218	246	5,740	145
Pa.	28,804	28,215	589	2.0	-	589	195	6,500	653
R.I.	677	670	8	1.1	-	8	8	2,635	157
S.C.	19,374	18,244	1,130	5.8	-	1,130	74	9,111	629
S. Dak.	48,852	45,480	3,402	7.0	1,614	1,788	136	3,539	161
Tenn.	26,728	25,067	1,660	6.2	-	1,660	252	6,164	788
Tex.	168,218	165,251	2,966	1.8	-	2,966	232	28,130	1,411
Utah	52,697	17,618	36,079	66.6	34,568	512	27	4,568	260
Vt.	5,937	5,680	257	4.3	-	257	11	352	21
Va.	25,496	23,316	2,181	8.6	-	2,181	132	19,409	1,326
Wash.	42,694	30,133	12,561	29.4	11,065	1,495	173	17,613	841
W. Va.	15,411	14,443	967	6.3	-	967	61	1,259	78
Wis.	35,011	33,225	1,786	5.1	9	1,777	19	4,097	185
Wyo.	62,343	33,058	28,285	47.0	28,618	667	66	3,247	72

<sup>1</sup> Represents zero. <sup>Z</sup> Less than 500. <sup>1</sup> Excludes trust properties.<sup>2</sup> Excludes valuation for public-domain lands for which there are no costs.<sup>3</sup> Excludes Alaska and Hawaii.Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

## No. 278. OWNERSHIP OF LAND, BY CLASS: 1954, 1959, AND 1964

[Land in millions of acres. See also *Historical Statistics, Colonial Times to 1957*, series J 65 and J 75]

CLASSES	1954		1959		1964	
	Land	Percent	Land	Percent	Land	Percent
Total	2,273	100.0	2,271	100.0	2,266	100.0
Private land <sup>1</sup>	1,335	58.7	1,332	58.7	1,329	58.7
Indian land <sup>2</sup>	53	2.3	53	2.3	50	2.2
Public land	885	39.0	886	39.0	887	39.1
Federal land <sup>3</sup>	766	33.7	765	33.7	765	33.8
State land <sup>4</sup>	101	4.5	103	4.5	103	4.5
County and municipal land	18	0.8	18	0.8	19	0.8

<sup>1</sup> Land owned by individuals, partnerships, and corporations.<sup>2</sup> Trust land held by tribes and individual owners exclusive of federally owned land used by Indians.<sup>3</sup> Gross acreage of Federal holdings including highway and road rights-of-way in Federal areas.<sup>4</sup> Includes the major part of highway and road rights-of-way through predominantly private land areas.Source: Dept. of Agriculture, Economic Research Service; *Major Uses of Land and Water in the United States*, July 1962, and unpublished data.

## No. 279. FEDERAL LAND, BUILDINGS, AND COST, BY AGENCY: 1960 AND 1967

[As of June 30]

AGENCY	LAND (1,000 acres)		NUMBER OF BUILDINGS		FLOOR AREA OF BUILDINGS (1,000 sq. ft.)		TOTAL COST— LAND, BUILDINGS, STRUCTURES, AND FACILITIES (mil. dol.)	
	1960	1967	1960	1967	1960	1967	1960	1967
							(NA)	71,459
Total	772,048	760,893	(NA)	(NA)	1,2,445,162	(NA)	52,618	71,459
Outside U.S.	536	528	(NA)	(NA)	1,30,240	(NA)	6,363	7,028
Inside U.S.	771,512	760,364	405,443	421,493	2,414,922	2,514,792	46,255	64,431
Agriculture	186,020	187,178	23,147	21,402	20,207	25,884	1,059	2,065
Atomic Energy Commission	2,088	2,149	7,026	6,460	73,115	77,980	3,141	3,818
Commerce	8	9	902	810	10,149	8,221	175	153
Defense	29,714	30,587	320,097	327,584	1,928,832	1,893,181	31,298	40,918
Army	8,529	11,399	141,639	133,363	790,054	735,668	8,861	9,869
Air Force	12,464	8,618	93,353	564,351	586,240	9,562	13,814	
Navy	3,548	3,610	79,909	80,722	563,129	561,972	8,073	9,029
Corps of Engineers, civil functions	5,173	6,960	5,196	5,942	11,298	10,299	4,802	8,205
General Services Administration	18	18	2,175	3,713	120,571	200,935	1,295	2,601
Housing and Urban Development <sup>2</sup>	1	(Z)	297	9	1,105	59	17	3
Interior	552,613	539,203	30,407	35,481	40,903	52,102	4,557	6,636
National Aeronautics and Space Administration	5	143	309	1,956	5,502	28,676	323	1,965
Post Office	2	1	3,063	2,660	46,663	47,208	489	560
State Dept.	76	68	108	97	162	161	62	70
Tenn. Valley Authority	696	768	717	737	2,794	3,239	1,753	2,400
Transportation <sup>3</sup>	113	162	1,742	10,202	4,244	22,414	187	1,023
Treasury	85	(Z)	3,960	68	13,751	3,100	209	42
Veterans Administration	29	23	7,565	5,992	114,719	111,334	1,195	1,541
Other	45	59	3,928	4,322	32,204	40,297	494	637

NA Not available. Z Less than 500 acres.

<sup>1</sup> Excludes floor area pertaining to Dept. of Defense military functions outside United States.<sup>2</sup> 1960 data are for Housing and Home Finance Agency.<sup>3</sup> 1960 data are for Federal Aviation Administration.Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

## Public Lands, Parks, Recreation, and Travel

## No. 280. FEDERAL LAND, BY PREDOMINANT USAGE, BY AGENCY: 1967

[In thousands of acres, except as indicated. As of June 30. Covers land in United States only]

AGENCY	Forest and wildlife	Grazing	Mili- tary, except air- fields	Parks and historic sites	Recla- mation and irriga- tion	Flood control and naviga- tion	Power devel- opment and dis- tribution	Air- fields	Other
Total cost.....\$1,000.	279	26	277	230	279	2,206	218	236	915
Total.....	503,415	163,780	15,608	23,300	7,651	7,123	2,040	2,266	35,182
Agriculture.....	167,403	19,046	-	(Z)	-	-	-	-	728
Atomic Energy Commission.....	-	-	-	-	-	-	-	-	2,149
Defense.....	-	-	15,608	2	-	6,271	679	2,242	5,736
Army.....	-	-	7,265	-	-	-	-	219	3,915
Air Force.....	-	-	7,102	-	-	-	-	1,356	160
Navy.....	-	-	1,241	-	-	-	-	667	1,702
Corps of Engineers, civil functions.....	-	-	-	2	-	6,271	679	-	9
Interior.....	336,011	144,728	-	23,274	7,651	26	1,330	(Z)	26,183
Tennessee Valley Authority.....	-	-	-	24	-	699	31	-	10
Other.....	-	6	1	(Z)	(Z)	128	-	23	328

- Represents zero.

Z Less than 500 acres.

Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

## No. 281. FEDERAL LAND AND BUILDINGS OWNED AND LEASED, BY LOCATION AND FUNCTION: 1967

[As of June 30]

LOCATION AND FUNCTION	LAND (1,000 acres)			FLOOR AREA OF BUILDINGS (1,000 sq. ft.)			LEASED PROPERTY	
	Total	Feder- ally owned	Leased	Total	Feder- ally owned	Leased	Num- ber of leases	Annual rental (\$1,000)
Total, worldwide.....	762,748	760,892	1,856	(NA)	(NA)	(NA)	(NA)	368,510
Civil agencies.....	730,372	730,210	162	806,372	656,006	150,366	55,148	298,966
Defense:								
Military functions.....	25,406	23,722	1,684	(NA)	(NA)	(NA)	(NA)	68,892
Civil functions.....	6,970	6,960	10	10,573	10,299	274	429	652
United States.....	762,106	760,364	1,742	2,653,601	2,514,792	138,809	59,858	279,641
Civil agencies.....	729,932	729,777	155	752,517	621,612	130,905	47,412	259,741
Defense:								
Military functions.....	25,204	23,627	1,577	1,890,511	1,882,881	7,630	12,017	19,248
Civil functions.....	6,970	6,960	10	10,573	10,299	274	429	652
Outlying areas of United States.....	525	523	2	(NA)	(NA)	(NA)	(NA)	1,607
Civil agencies.....	429	428	1	16,398	15,676	722	267	1,587
Defense: Military functions.....	96	95	1	(NA)	(NA)	(NA)	(NA)	20
Foreign countries.....	117	5	112	(NA)	(NA)	(NA)	(NA)	87,262
Civil agencies.....	11	5	6	37,457	18,718	18,739	7,469	37,638
Defense: Military functions.....	106	-	106	(NA)	(NA)	(NA)	(NA)	49,024

- Represents zero. NA Not available.

Source: General Services Administration; annual reports, *Inventory Report on Real Property Leased to the United States Throughout the World* and *Inventory Report on Real Property Owned by the United States Throughout the World*.

No. 282. PUBLIC LANDS—DISPOSAL TRANSACTIONS AND CASH RECEIPTS: 1901 TO 1967

[For years ending June 30. Period figures are totals, not averages. See also *Historical Statistics, Colonial Times to 1957*, series J 11-18]

PERIOD OR YEAR	ALL ENTRIES, SELECTIONS, PATENTS, ETC. <sup>1</sup>			HOMESTEAD ENTRIES, EXCEPT ON CEDED INDIAN LANDS			CASH RECEIPTS		
	All origi- nal entries and se- lections <sup>2</sup>	All final entries	Patents and certifi- cations	Original entries		Final entries <sup>3</sup>	Total <sup>4</sup>	Mineral leases <sup>5</sup>	Sales of timber
				Number	Acreage				
1901-1910.....	1,000 acres	1,000 acres	1,000 acres			1,000 acres	\$1,000	\$1,000	\$1,000
1911-1920.....	190,841 (NA)	190,841 (NA)	831,841 (NA)	831,841	130,737	38,819 94,095	(X)	(X)	(NA)
1921-1930.....	156,402 6,9778	156,402 6,9778	554,026 13,327	554,026	123,826	74,316 67,023	(X)	(X)	768
1931-1940.....	61,231 19,269	61,231 19,269	45,513 14,243	66,358	172,503	53,480 40,391	104,454 13,017	76,372 57,984	7,537 4,289
1941-1945.....	404	1,057	3,350	1,233	159	764	58,428	40,761	7,439
1946-1950.....	496	436	1,726	2,456	306	157	141,464	105,446	17,498
1951-1955.....	1,101	1,029	2,081	2,259	289	220	497,482	375,223	68,511
1956-1960.....	2,075	1,353	3,547	3,899	501	222	902,014	675,178	139,121
1961-1965.....	13,643	2,054	4,186	2,145	259	118	1,286,869	967,070	192,519
1966.....	880	254	754	383	46	25	530,693	469,422	33,629
1967.....	5,696	507	1,224	291	31	19	199,052	123,619	47,155
1968.....	2,403	220	769	182	22	12	234,361	160,751	44,874
1969.....	1,787	214	3,407	115	16	11	433,749	350,273	47,050
1970.....	474	942	1,622	51	7	21	821,504	747,525	47,076

NA Not available. X Not applicable. <sup>1</sup> Includes homesteads.

<sup>2</sup> Includes some classes of final entries and patents prior to 1911. <sup>3</sup> Excludes commuted homesteads.

<sup>4</sup> Comprises Bureau of Land Management receipts from such sources as following: Sales of public and ceded Indian lands; fees and commissions, mineral rentals, royalties, and bonuses; sales of timber; grazing fees and rentals; and land rentals. For periods prior to 1901, receipts were \$340,821,000.

<sup>5</sup> Act of Feb. 25, 1920. Includes Outer Continental Shelf leases beginning 1955. <sup>6</sup> 1920 only.

Source: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

No. 283. PUBLIC LANDS—LEASES, PERMITS, AND LICENSES, BY CLASS: 1950 TO 1967

[Acres in thousands. As of June 30, except as noted. Excludes leases on acquired, submerged, and military lands. See *Historical Statistics, Colonial Times to 1957*, series J 32-33, for oil and gas leases]

CLASS	1950		1955		1960		1967	
	Number	Acres	Number	Acres	Number	Acres	Number	Acres
Mineral class.....	28,208	24,006	96,898	72,902	142,114	118,157	93,282	56,489
Leases.....	27,747	23,076	96,387	71,983	140,057	114,136	92,186	54,891
Oil and gas.....	27,300	22,872	195,907	171,696	139,534	113,667	91,337	53,855
Coal.....	383	121	307	136	294	199	449	562
Other.....	64	83	123	152	229	270	400	474
Permits.....	418	929	525	918	2,035	4,020	1,087	1,597
Sodium.....	72	131	119	223	986	1,999	60	113
Potash.....	270	515	283	530	825	1,649	292	614
Other.....	76	233	123	164	224	373	735	870
Licenses.....	43	2	36	2	22	1	9	1
Other classes <sup>2</sup> .....	27,477	15,301	53,488	20,920	(NA)	19,529	10,806	20,055
Leases.....	27,166	14,897	52,364	19,772	19,010	18,615	9,677	19,000
Grazing <sup>3</sup> .....	11,283	14,715	11,199	19,404	9,911	18,532	8,609	18,929
Recreation.....	18	20	12	2	61	7	362	118
Small tract.....	15,802	73	41,092	187	8,982	33	524	2
Other.....	63	89	61	179	56	43	182	41
Permits <sup>2</sup> .....	311	404	1,074	1,147	(NA)	914	1,129	985

NA Not available.

<sup>1</sup> Includes naval petroleum reserve: 17 leases, 9,226 acres.

<sup>2</sup> Excludes grazing licenses and permits within grazing districts.

<sup>3</sup> Beginning 1960, as of Dec. 31.

Source: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

## No. 284. PUBLIC LANDS—HOMESTEAD ENTRIES, 1941 TO 1967, AND VACANT LANDS, 1940 TO 1967, BY STATES

[Homestead entries for years ending June 30; vacant lands as of June 30. Excludes States with less than 500 acres in years specified. See text, p. 192. Vacant public lands are those which are unappropriated and unreserved. The former represent lands not covered by an entry; the latter, lands not reserved for some public purpose, i.e., available for entry or selection under appropriate laws. Data cover vacant public lands outside Alaska withdrawn for classification in furtherance of Taylor Grazing Act and for conservation and development of natural resources. See *Historical Statistics, Colonial Times to 1957*, series J 10, for vacant lands excluding Alaska and J 17-18 for homestead entries]

ITEM AND STATE	HOMESTEAD ENTRIES (acres)				VACANT LANDS <sup>1</sup> (1,000 acres)			
	1941-1950, total	1951-1960, total	1961-1966, total	1967	1940	1950	1960	1967
Total.....	<sup>2</sup> 464,406	<sup>2</sup> 789,998	<sup>2</sup> 275,124	<sup>2</sup> 7,442	502,826	<sup>3</sup> 440,408	437,879	425,955
Alaska.....	231,318	571,963	264,560	7,123	323,000	270,000	270,200	262,408
Arizona.....	16,333	9,408	478	-	13,869	12,545	12,442	12,386
Arkansas.....	-	160	40	-	130	134	3	2
California.....	27,455	3,892	-	-	16,969	16,206	15,673	14,205
Colorado.....	18,036	14,452	100	-	7,937	8,070	8,090	8,209
Florida.....	-	360	40	-	14	23	1	2
Idaho.....	31,646	96,014	2,855	189	11,879	10,858	11,652	11,699
Minnesota.....	-	-	-	-	238	93	58	21
Montana.....	18,515	1,623	-	-	6,460	6,773	6,385	6,173
Nevada.....	4,126	25,798	4,864	160	51,144	47,158	46,027	46,520
New Mexico.....	15,195	3,854	1,547	-	15,695	14,503	13,129	12,819
North Dakota.....	(4)	-	-	-	108	96	79	76
Oregon.....	5,271	1,298	-	-	12,774	13,298	13,153	13,328
South Dakota.....	(4)	-	-	-	279	290	272	278
Utah.....	45,631	53,599	280	-	25,734	23,033	24,097	21,649
Washington.....	2,755	832	160	-	577	487	365	274
Wyoming.....	32,771	2,533	103	-	15,807	16,615	16,198	15,870
Other States.....	-	-	37	-	112	126	55	27
Bureau of Land Management.....	<sup>4</sup> 15,354	4,212	-	-	(X)	(X)	(X)	(X)
Final entries.....	<sup>5</sup> 921,108	<sup>6</sup> 442,138	<sup>5</sup> 128,562	<sup>6</sup> 21,086	(X)	(X)	(X)	(X)

<sup>1</sup> Represents zero. <sup>X</sup> Not applicable.

<sup>2</sup> Includes acreage of public lands within grazing districts, as follows (in thousands): 1940, 131,026; 1950, 134,876; 1960, 141,645; 1967, 138,242.

<sup>3</sup> Original entries.

<sup>3</sup> Includes 1,000 acres for Missouri.

<sup>4</sup> For States no longer having local offices, entries, if any, included with Bureau of Land Management.

<sup>5</sup> Excludes commuted homesteads and ceded Indian lands.

## No. 285. PUBLIC AND INDIAN LAND—ENTRIES UNDER ALL ACTS, BY STATES: 1936 TO 1967

[In acres. For years ending June 30. See text, pp. 191 and 192. See also *Historical Statistics, Colonial Times to 1867*, series J 13-15]

CLASS AND STATE	ORIGINAL ENTRIES							Final entries, 1967	Pat- ented, 1967
	1936- 1945, total	1946- 1955, total	1956- 1965, total	1964	1965	1966	1967		
Total.....	1,441,258	<sup>1</sup> 1,596,952	<sup>1</sup> 15,718,794	5,695,900	2,402,916	1,788,932	474,295	941,828	1,551,415
Public land.....	1,387,923	1,572,967	15,718,794	5,695,900	2,402,916	1,778,992	470,037	937,782	1,542,670
Indian land.....	53,334	23,984	-	-	-	7,940	4,258	4,046	8,730
All homesteads.....	871,146	618,728	780,702	31,441	22,173	15,514	7,442	23,405	23,500
Stock-raising.....	498,408	5,707	-	-	-	-	-	-	-
Other entries.....	570,112	978,233	14,958,092	5,664,459	2,380,743	1,771,418	466,853	918,423	1,527,915
Alaska.....	125,729	350,095	13,924,737	5,490,054	2,177,017	1,711,243	340,534	812,350	1,153,123
Arizona.....	106,031	95,646	312,160	14,139	16,927	27,355	87,079	3,290	7,754
California.....	299,057	171,669	69,790	4,065	2,867	714	546	4,479	11,129
Colorado.....	117,787	138,919	35,268	547	30	-	101	2,533	8,170
Idaho.....	79,061	252,110	323,653	40,271	24,733	17,352	-	23,799	32,207
Montana.....	105,548	3,326	5,140	66	340	-	-	-	5,205
Nevada.....	10,682	314,822	531,716	9,775	168,423	19,633	9,417	26,794	84,405
New Mexico.....	210,377	17,053	34,148	2,841	3,107	1,856	1,047	34,369	136,731
Oregon.....	59,014	24,421	22,444	1,234	180	1,095	8,198	4,533	33,697
Utah.....	126,780	148,369	236,912	120,763	490	793	581	5,416	31,308
Washington.....	4,093	5,854	141,276	5,650	430	525	160	758	9,384
Wyoming.....	147,904	65,928	65,110	5,051	8,372	6,366	2,775	6,901	11,369
Other States.....	49,195	8,710	16,440	1,444	-	58	9,923	16,804	-

<sup>1</sup> Represents zero.

Source of tables 284 and 285: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

No. 286. LANDS UNDER JURISDICTION OF BUREAU OF INDIAN AFFAIRS—ACREAGE,  
BY STATES: 1900 TO 1967

[In thousands. Excludes States with less than 500 acres in years specified]

STATE	1900	1920	1940	1960 <sup>1</sup>	1967 <sup>1</sup>			Government-owned	
					Total	Indian			
						Trust allotted	Tribal		
Total	78,372	71,399	55,406	258,076	355,413	311,019	39,443	4,951	
Alaska	(N.A.)	(N.A.)	(N.A.)	4,168	4,167	15	88	4,065	
Arizona	15,151	18,653	19,225	21,515	19,741	259	19,391	90	
California	406	517	667	558	543	80	463	(Z)	
Colorado	484	469	667	752	753	5	747	1	
Florida	23	24	61	79	79	—	79	(Z)	
Idaho	1,385	683	818	835	830	382	406	41	
Iowa	3	3	3	4	4	—	4	—	
Kansas	28	273	36	29	28	25	2	(Z)	
Michigan	8	153	27	22	21	9	8	4	
Minnesota	1,567	1,509	653	756	764	53	652	29	
Mississippi <sup>4</sup>	(X)	(X)	9	16	18	(Z)	17	(Z)	
Montana	9,501	6,054	6,455	5,487	5,307	3,437	1,745	125	
Nebraska	75	360	76	68	63	48	14	(Z)	
Nevada	954	741	1,127	1,152	1,149	79	1,062	8	
New Mexico	1,667	4,697	7,158	6,542	7,114	680	6,048	385	
New York	88	88	(4)	(5)	(5)	(5)	(5)	(5)	
North Carolina	98	63	57	56	57	—	56	(Z)	
North Dakota	3,702	2,105	1,036	879	860	708	146	6	
Oklahoma	26,397	19,552	2,844	1,855	1,519	1,430	58	32	
Oregon	1,300	1,718	1,737	1,238	688	178	509	1	
South Dakota	8,992	6,686	5,865	5,064	4,880	2,744	2,015	121	
Utah	2,039	1,641	1,693	2,125	2,272	61	2,211	(Z)	
Washington	2,334	2,119	2,740	2,591	2,480	626	1,855	(Z)	
Wisconsin	381	590	445	422	187	83	63	39	
Wyoming	1,810	2,102	2,013	1,890	1,888	115	1,771	1	

<sup>1</sup> Represents zero. N.A. Not available. X Not applicable. Z Less than 500 acres.<sup>2</sup> Taxable lands generally excluded. <sup>3</sup> Includes 3,000 acres in South Carolina, not shown separately.<sup>3</sup> Includes taxable land as follows: 34,086 acres for Nebraska and 278,343 acres for Oklahoma.<sup>4</sup> Land purchased in 1939. <sup>5</sup> Partial jurisdiction over Indian lands transferred to State of New York.Source: Dept. of the Interior, Bureau of Indian Affairs; *Annual Report*, and unpublished data.

## No. 287. NATIONAL FOREST RECREATION USE—SUMMARY: 1967

[Estimated. Represents recreational use of National Forest land and water which aggregates 12 person hours; may entail 1 person for 12 hours, 12 persons for 1 hour, or any equivalent combination of individual or group use, either continuous or intermittent]

PLACE WHERE USE OCCURRED	Visitor-days (1,000)	Percent	ACTIVITY	Visitor-days (1,000)	Percent
Sites and areas	149,647	100.0	Total	149,647	100.0
Developed sites	60,875	40.7	Camping	37,009	24.7
Observation sites	680	0.5	Picnicking	7,034	4.7
Playgrounds, parks, sports sites	28	(Z)	Recreation travel (mechanized)	34,889	23.3
Boating sites	1,450	1.0	Automobile	32,528	21.7
Swimming sites	973	0.7	Scooter and motorcycle	1,481	1.0
Campgrounds	30,231	20.2	Ice and other	880	0.6
Picnic grounds	4,610	3.1	Boating	4,016	2.7
Hotels, lodges, resorts	3,907	2.6	Games and team sports	539	0.4
Organization sites	5,543	3.7	Waterskiing and other water sports	688	0.5
Commercial public service sites	523	0.3	Swimming and scuba diving	2,854	1.9
Recreation residence sites	7,690	5.1	Winter sports	5,377	3.6
Winter sports sites	5,102	3.4	Fishing	13,956	9.3
Visitor centers	138	0.1	Hunting	13,249	8.8
Dispersed areas	88,772	59.3	Hiking and mountain climbing	4,124	2.8
Roads (recreation)	35,895	24.0	Horseback riding	1,946	1.3
Trails (recreation)	4,254	2.8	Resort use	3,794	2.6
Waters <sup>1</sup>	19,039	12.7	Organization camp use	4,248	2.8
General undeveloped country	29,584	19.8	Recreation residence use	7,703	5.1
			Gathering forest products	1,208	0.8
			Nature study	785	0.5
			Viewing scenery, sports, environment	4,276	2.9
			Visitor information (exhibits, talks, etc.)	1,952	1.3

<sup>1</sup> Less than 0.05 percent. <sup>2</sup> Includes all recreation streams, rivers, lakes, reservoirs, etc.

Source: Dept. of Agriculture, Forest Service; unpublished data.

## No. 288. NATIONAL PARK SYSTEM—SUMMARY: 1950 TO 1967

[For years ending June 30, except as noted. Includes data for 5 areas in Puerto Rico and Virgin Islands]

ITEM	1950	1955	1960	1964	1965	1966	1967
<b>Finances (\$1,000):</b>							
Expenditures reported <sup>1</sup> .....	24,051	35,433	74,216	129,536	131,610	136,443	125,985
Salaries and wages.....	11,829	16,921	29,854	45,994	48,566	53,926	62,100
Improvements and maintenance <sup>2</sup> .....	2,918	3,200	4,662	8,396	8,301	9,477	11,074
Lands.....	327	1,665	1,612	14,752	10,578	8,852	1,479
Construction <sup>2</sup> .....	7,307	11,726	33,222	51,707	55,264	55,514	42,254
Other <sup>2</sup> .....	1,670	1,921	4,866	8,687	8,901	8,074	9,078
Funds available for expenditures.....	37,447	53,750	115,711	182,563	183,084	179,799	174,523
Appropriations.....	30,117	33,077	79,551	113,227	128,366	127,794	124,673
Other.....	7,330	20,673	36,160	69,336	54,698	52,005	49,850
Revenue from operations <sup>3</sup> .....	3,528	4,914	5,685	7,086	7,350	8,079	8,291
<b>Visits (1,000):<sup>4</sup></b>							
All areas.....	53,253	56,573	79,229	111,386	121,312	133,081	139,676
National parks.....	13,919	18,830	26,630	34,047	36,566	38,556	39,641
National monuments.....	5,310	7,954	10,738	12,164	12,286	13,144	13,741
National historical and military areas.....	9,477	12,604	21,820	36,688	40,695	44,578	42,131
National parkways.....	1,996	6,700	8,983	11,473	12,977	15,925	21,130
National recreation areas.....	2,551	3,655	3,650	5,178	6,222	8,438	8,954
National seashores.....	(X)	265	467	2,920	3,395	4,527	5,911
National Capital Parks.....	(NA)	6,565	6,941	8,911	9,171	7,913	8,168
<b>Overnight stays:</b>							
Total reported.....	64,501	65,440	9,365	12,143	13,047	14,540	16,029
Camper days.....	2,281	5,275	4,846	7,453	8,085	9,000	(NA)
In commercial lodgings.....	2,270	2,165	2,764	3,179	3,327	3,567	(NA)
Other.....	(NA)	(NA)	1,755	1,506	1,635	1,973	(NA)
<b>Land:</b>							
Total <sup>5</sup> .....1,000 acres.....	22,976	28,873	24,458	26,775	27,160	27,510	28,049
Parks.....1,000 acres.....	11,420	12,641	13,205	14,008	14,015	14,094	14,080
Recreation areas.....1,000 acres.....	2,010	2,042	2,039	3,294	3,634	3,666	3,689
Other.....1,000 acres.....	9,546	9,190	9,214	9,474	9,520	9,750	10,280
Acquisition, gross.....acres.....	860,418	12,603	21,422	62,575	318,653	35,016	59,219
By purchase.....acres.....	1,907	3,192	5,710	13,024	41,793	16,909	52,355
By gift.....acres.....	785,178	3,295	10,300	38,817	12,716	15,216	3,124
By transfer.....acres.....	45,080	—	320	1,425	236,833	1,469	1,285
By exchange.....acres.....	28,253	6,116	5,092	9,309	27,311	1,422	2,455
Exclusion.....acres.....	1	—	204	219,538	8,320	1,099	21
Acquisition, net.....acres.....	860,417	12,603	21,218	615,963	318,324	33,917	59,198

<sup>1</sup> Represents zero. NA Not available. X Not applicable.<sup>2</sup> Excludes transfers from appropriations to other agencies. <sup>3</sup> Excludes salaries and wages.<sup>3</sup> Represents receipts deposited in Treasury; not available for expenditure by National Park Service.<sup>4</sup> For calendar year; 1960 and 1965 data not adjusted for comparability with counting system as modified in 1960. Prior to 1964, excludes visits to White House. <sup>5</sup> Excludes National Capital Parks.<sup>6</sup> Excludes "other" overnight stays. <sup>7</sup> Acreage as of Jan. 1. <sup>8</sup> Represents United States lands alienated by exchange of United States and private lands. <sup>9</sup> Net reductions.Source: Dept. of the Interior, National Park Service, *Campground Use in the National Park Service* and *Public Use of the National Parks: A Statistical Report*, and unpublished data.

## No. 289. NATIONAL PARKS, MONUMENTS, AND ALLIED AREAS: 1968

[As of January 1. Includes data for 5 areas in Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1957*, series H 455-470]

TYPE OF AREA	Number of areas	Total acreage	TYPE OF AREA	Number of areas	Total acreage
National Park System.....	263	28,048,629	Historic sites.....	45	8,709
National parks.....	33	13,890,350	Memorials.....	21	5,650
Historical parks.....	13	44,689	Cemeteries.....	10	220
Military parks.....	11	31,947	Seashores.....	7	345,557
Memorial park.....	1	70,436	Parkways.....	5	125,231
National Capital Parks <sup>1</sup> .....	1	7,711	Recreation areas.....	12	3,688,827
Battlefield parks.....	4	9,268	White House.....	1	18
Monuments.....	82	9,596,160	Lakeshores.....	2	75,721
Battlefields.....	5	4,220	Scenic Riverways.....	1	85,000
Battlefield sites.....	3	786	Parks, other.....	4	25,601
			International park.....	1	10
			Scientific Reserve.....	1	32,500

<sup>1</sup> Includes portion of Chesapeake and Ohio Canal among the 730 units administered, as of Dec. 27, 1967.Source: Dept. of the Interior, National Park Service; annual report, *National Parks & Landmarks*.

# State Park and Recreation Areas

201

## No. 290. STATE PARK SYSTEMS—SUMMARY: 1950 TO 1962

[For years ending June 30, in most cases. Prior to 1950, excludes Alaska and Hawaii. Number of agencies which reported varies from year to year. Covers parks, historic sites, and parkways reported by State park and State historical agencies. See also *Historical Statistics, Colonial Times to 1957*, series H 475-487.]

ITEM	1950	1955	1958	1959	1960	1961	1962
Areas <sup>1</sup> —number	1,725	2,034	2,335	2,433	2,664	2,792	2,544
Acreage <sup>1</sup> —1,000	4,657	5,086	5,406	5,681	5,602	5,799	5,766
Expenditures—\$1,000	236,399	55,093	73,222	88,268	87,373	110,101	106,151
Salaries and wages—\$1,000	13,622	22,673	31,730	33,548	37,137	41,076	42,604
Supplies and equipment—\$1,000	7,738	11,351	15,260	17,383	19,132	19,905	18,420
Lands—\$1,000	2,651	5,523	7,555	14,834	12,077	13,035	12,296
Improvements—\$1,000	12,364	15,293	18,632	22,432	19,026	36,085	34,004
Funds available for expenditures \$1,000	52,283	69,075	135,060	2139,341	2131,419	133,673	144,611
Appropriations—\$1,000	28,421	43,382	73,626	65,283	69,294	89,832	98,734
Other—\$1,000	28,862	25,693	61,433	73,767	61,794	43,821	45,877
Revenue from operations—\$1,000	6,646	13,817	18,235	20,773	22,641	23,384	26,406
Attendance—1,000	114,291	183,188	237,329	255,310	259,001	273,484	284,705
Day visits—1,000	108,212	169,123	220,206	237,316	238,432	249,186	260,745
Overnight visits—1,000	6,079	21,057	21,123	21,994	20,569	22,999	24,050
Cabins and hotels—1,000	1,223	1,576	1,753	1,944	1,697	2,230	2,212
Organized camps—1,000	1,480	1,697	2,075	2,096	2,235	2,206	2,249
Tent and trailer camps—1,000	3,377	7,650	13,074	13,734	16,217	18,563	18,763
Personnel—number	10,626	13,637	16,673	16,690	17,537	18,126	17,621
Professional—number	401	373	536	607	731	1,386	(NA)
Year-round—number	4,191	5,657	6,691	6,966	7,412	7,984	7,075
Seasonal—number	6,435	7,980	9,982	9,724	10,125	10,142	10,546
Land acquisition—acres	62,042	70,148	2158,780	2151,689	68,326	156,485	(NA)
By purchase—acres	18,236	13,750	17,573	52,801	38,915	64,566	(NA)
By gift—acres	4,586	35,724	10,300	17,740	7,585	11,648	(NA)
By other means—acres	39,220	20,674	122,841	175,321	21,826	80,271	(NA)

NA Not available.

<sup>1</sup> Excludes State forests, wildlife refuges, and waysides not administered by State park agencies.

<sup>2</sup> Includes data for which the detailed breakdown is not available.

<sup>3</sup> Excludes Colo., Del., Ill., Minn., and Nebr. because State park systems expenditures were not shown separately in consolidated reports submitted by States.

<sup>4</sup> Includes 836,086 primitive (few if any facilities) campers.

Source: Dept. of the Interior, Bureau of Outdoor Recreation; *State Outdoor Recreation Statistics—1962*.

## No. 291. STATE PARK AND RECREATION AREAS, SUMMARY—STATES: 1965

[Covers areas of 10 acres or more administered by State park, forest, fish and wildlife, historic preservation, highway, and other agencies]

STATE	AREAS		Visits (1,000)	Expendi- tures <sup>1</sup> (\$1,000)	STATE	AREAS		Visits (1,000)	Expendi- tures <sup>1</sup> (\$1,000)
	Num- ber	Acres (1,000)				Number	Acres (1,000)		
U.S.—	18,610	39,701	421,377	247,335	Mo.—	294	318	9,677	6,649
Ala.	139	410	3,912	611	Mont.	268	634	1,917	549
Alaska	117	336	842	2,116	Nebr.	122	131	3,789	3,433
Ariz.	691	121	331	2,261	N.H.	285	76	4,748	2,705
Ark.	49	178	2,148	749	N.J.	134	291	5,648	2,889
Calif.	216	921	31,907	32,448	N. Mex.	90	346	3,299	2,461
Colo.	72	113	1,910	6,594	N.Y.	304	3,638	39,757	5,106
Conn.	230	160	6,495	5,237	N.C.	156	282	2,112	4,461
Del.	35	24	569	331	N. Dak.	216	84	903	1,331
Fla.	809	2,891	5,043	4,978	Ohio	492	358	23,590	7,627
Ga.	312	773	5,389	2,310	Oklahoma	88	491	10,704	6,190
Hawaii	90	1,302	1,496	2,268	Oreg.	267	951	15,350	6,640
Idaho	144	593	1,871	2,634	Pa.	495	3,033	25,490	17,906
Ill.	129	1,008	23,803	10,398	R.I.	101	31	3,286	349
Ind.	246	230	4,243	244	S.C.	56	158	2,450	2,485
Iowa	513	160	29,478	5,381	S. Dak.	406	215	4,625	348
Kans.	226	102	1,066	2,014	Tenn.	1,374	743	6,931	5,472
Ky.	135	152	10,622	11,135	Tex.	954	388	9,239	7,097
La.	47	1,807	2,610	2,150	Utah	123	241	969	3,463
Maine	625	241	2,170	3,165	Vt.	161	152	1,223	2,287
Md.	99	198	3,428	(NA)	Va.	126	156	1,466	3,491
Mass.	574	340	32,583	4,340	Wash.	1,546	4,148	26,350	(NA)
Mich.	2,953	4,199	26,083	17,980	W. Va.	63	262	3,780	1,816
Minn.	735	3,701	4,335	7,757	Wis.	1,075	944	9,265	20,189
Miss.	144	1,262	1,233	1,322	Wyo.	62	88	813	2,426

NA Not available.

<sup>1</sup> For fiscal year ending in 1964.

Source: Dept. of the Interior, Bureau of Outdoor Recreation; unpublished data based on inventory of public recreation areas.

## No. 292. MUNICIPAL AND COUNTY PARK AND RECREATION AREAS—SUMMARY, BY STATES: 1965

[3,142 reporting agencies]

STATE	PARK AND RECREATION AREAS		PAID EMPLOYEES		Play-grounds under leadership	Recrea-tion build-ings and indoor centers	EXPENDITURES (\$1,000)		
	Num-ber	Acreage	Total	Full-time profes-sionals			Land, build-ings, per-manent improve-ments	Current operat-ing ex-penses	Capital expendi-tures, 1961-1965
United States	30,509	1,496,378	243,170	19,208	24,298	22,527	290,221	611,158	1,049,470
New England									
Maine	1,979	58,255	15,084	942	1,742	1,145	10,567	25,758	44,873
Maine	118	1,318	639	99	105	63	241	1,287	580
New Hampshire	144	4,243	764	45	126	102	412	1,170	3,219
Vermont	109	2,199	438	19	50	83	122	501	810
Massachusetts	888	30,384	7,200	268	789	340	3,734	11,564	23,707
Rhode Island	164	2,202	1,187	64	157	104	1,078	1,702	2,715
Connecticut	555	17,909	4,856	457	515	453	4,980	9,574	13,892
Middle Atlantic	5,333	156,966	51,593	2,428	5,235	2,824	83,767	131,836	329,367
New York	2,966	92,794	32,690	1,224	2,387	1,194	63,819	87,770	289,666
New Jersey	1,033	30,853	8,499	575	1,083	727	7,435	17,248	19,185
Pennsylvania	1,334	33,319	10,404	629	1,765	903	12,514	26,818	20,486
East North Central	6,303	413,896	60,134	3,753	4,542	4,228	52,921	146,922	183,704
Ohio	1,381	206,326	11,538	874	1,233	894	13,290	26,785	57,938
Indiana	637	19,551	4,717	345	623	424	6,035	12,208	10,310
Illinois	1,800	98,811	19,628	1,479	1,015	970	19,605	59,079	55,766
Michigan	1,475	48,371	13,283	748	1,093	1,198	7,666	29,119	26,749
Wisconsin	1,060	41,837	10,988	307	578	742	6,325	19,731	32,941
West North Central	2,886	128,022	18,079	1,592	1,701	1,482	16,088	34,403	63,972
Minnesota	936	43,567	6,171	354	625	682	3,355	9,172	17,685
Iowa	728	29,508	3,030	164	296	203	2,286	4,680	7,629
Missouri	452	28,893	3,667	786	334	205	6,719	12,184	27,580
North Dakota	97	3,702	623	32	55	50	719	1,100	1,219
South Dakota	108	2,506	499	32	60	38	255	1,018	1,025
Nebraska	201	6,818	1,304	47	91	83	668	2,084	3,840
Kansas	364	13,028	2,785	177	240	221	2,090	3,565	5,014
South Atlantic	4,855	152,172	27,968	3,822	3,496	2,803	34,740	77,987	102,691
Delaware	174	2,320	580	16	55	35	121	1,347	756
Maryland	532	23,945	6,397	485	648	600	10,535	14,708	22,852
District of Columbia	846	40,772	3,287	494	198	187	5,567	15,100	34,075
Virginia	496	22,450	3,228	642	725	562	3,437	8,291	5,505
West Virginia	139	6,667	1,487	58	323	278	2,146	2,425	2,371
North Carolina	478	14,861	2,942	341	471	297	3,913	6,401	6,158
South Carolina	226	2,106	682	179	186	124	263	1,593	834
Georgia	675	8,658	2,245	448	323	184	2,152	5,514	7,668
Florida	1,289	30,363	7,120	1,159	566	536	6,607	22,600	22,472
East South Central	1,100	37,324	8,384	955	1,100	807	7,710	15,970	26,983
Kentucky	189	10,838	2,250	92	218	262	1,782	2,622	5,357
Tennessee	449	15,997	3,710	470	493	306	2,938	7,499	14,327
Alabama	342	7,842	1,521	262	229	154	2,491	4,281	5,469
Mississippi	120	2,647	903	131	160	85	499	1,568	1,830
West South Central	2,129	94,703	11,287	1,224	1,164	878	18,596	28,768	80,993
Arkansas	43	2,128	240	7	20	21	63	430	320
Louisiana	182	7,668	1,995	314	346	154	3,145	4,164	5,197
Oklahoma	389	21,488	1,567	120	168	107	1,620	3,016	11,316
Texas	1,515	63,438	7,485	783	630	596	13,769	21,158	64,160
Mountain	1,300	219,992	9,231	484	896	1,108	7,085	17,092	20,754
Montana	171	18,302	433	35	50	94	219	854	1,256
Idaho	158	3,076	960	30	80	86	471	1,054	971
Wyoming	65	27,018	279	16	27	27	154	641	271
Colorado	317	19,334	2,877	119	186	280	1,562	3,602	4,335
New Mexico	156	15,313	663	50	90	111	1,540	1,538	2,358
Arizona	249	132,898	2,434	125	281	328	1,067	6,623	7,519
Utah	108	2,015	999	32	131	160	665	1,234	1,071
Nevada	76	7,036	586	77	41	22	1,406	1,646	2,973
Pacific	4,624	235,048	41,410	4,008	4,422	7,252	58,746	132,391	196,131
Washington	742	19,129	2,904	205	354	427	2,969	9,550	16,121
Oregon	709	21,530	2,638	157	266	319	2,483	6,824	6,189
California	2,846	188,797	34,578	3,445	3,616	6,415	49,365	111,077	157,122
Alaska	29	1,360	48	5	11	4	133	196	266
Hawaii	298	4,232	1,152	196	175	87	3,757	4,744	16,432

Source: National Recreation and Park Association, Washington, D.C.; *Recreation and Park Yearbook 1966*.  
(Copyright.)

# Parks and Recreation Areas—Hunting and Fishing Licenses 203

## No. 293. MUNICIPAL AND COUNTY PARK AND RECREATION AREAS—NUMBER, ACREAGE, PROFESSIONAL PERSONNEL, AND SELECTED FACILITIES: 1940 TO 1965

[Represents only park and recreation systems which returned questionnaires or were personally contacted by other means. In 1965, 2,784 municipal and 368 county agencies submitted reports. See *Historical Statistics, Colonial Times to 1967*, series H 488-499, for related data.]

ITEM	1940	1946	1950	1955	1960	1965
Park and other recreation areas:						
Number	(NA)	(NA)	17,142	20,417	24,710	30,509
Acreage	(NA)	(NA)	644,067	748,701	1,015,461	1,496,378
Professional personnel, total	24,533	41,159	58,029	76,878	99,696	119,515
Full time, year-round	3,559	5,147	6,784	8,387	9,216	19,208
Playgrounds under leadership	9,921	11,559	14,747	18,224	20,107	24,298
Selected facilities:						
Ball diamonds, 90 foot	3,904	4,323	5,502	5,542	7,044	9,335
Bathing beaches	572	618	780	830	951	1,261
Golf courses, 9 and 18 hole	387	340	454	478	585	1,005
Outdoor swimming pools	898	1,116	1,289	1,813	2,513	4,277
Tennis courts	12,075	11,847	13,085	13,188	15,676	19,926
Recreation buildings	1,750	1,832	2,987	4,097	3,828	6,486
Indoor recreation centers	3,986	4,021	6,630	9,400	13,142	16,041
Softball diamonds	10,042	10,034	12,266	11,834	14,832	17,487

NA Not available.

Source: National Recreation and Park Association, Washington, D.C.; *Recreation and Park Yearbook*. (Copyright.)

## No. 294. PUBLIC OUTDOOR RECREATION AREAS—LEVEL OF GOVERNMENT AND SIZE: 1965

[Comprises publicly owned and managed land and water areas where recreation is a recognized use]

SIZE OF AREA	TOTAL <sup>1</sup>		FEDERAL		STATE		COUNTY	
	Number of areas	Acreage (1,000)	Number of areas	Acreage (1,000)	Number of areas	Acreage (1,000)	Number of areas	Acreage (1,000)
Total	65,219	491,298	2,127	446,616	18,614	39,701	4,048	2,977
40 acres and under	5,422	63	229	4	3,341	35	1,852	25
41 to 100 acres	2,578	100	134	9	1,755	63	689	28
101 to 500 acres	7,465	645	222	51	6,185	469	1,058	126
501 to 1,000 acres	3,821	672	84	60	3,549	544	188	67
1,001 to 5,000 acres	3,378	3,482	243	625	2,910	2,633	216	223
5,001 to 25,000 acres	945	10,784	325	4,095	600	6,463	20	226
25,001 to 100,000 acres	536	28,373	336	17,877	185	9,749	15	747
100,001 to 1,000,000 acres	522	173,426	433	154,530	79	17,361	10	1,534
Over 1,000,000 acres	122	271,750	121	269,365	1	2,385	-	-

<sup>1</sup> Represents zero. <sup>2</sup> Includes data for municipal government not shown separately as follows: Areas under 10 acres (acres 32,562, acreage 132,932), and areas 10 acres and over (areas 7,868, acreage 1,870,674). Based in part on an expanded sample of cities under 50,000 population.

Source: Dept. of the Interior, Bureau of Outdoor Recreation; *Nationwide Outdoor Recreation Plan*, May 1968.

## No. 295. NUMBER AND COST OF HUNTING AND FISHING LICENSES: 1950 TO 1966

[For years ending June 30. Prior to 1960, hunting and fishing licenses exclude Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1967*, series H 523-524]

ITEM	1950	1955	1960	1962	1963	1964	1965	1966
<b>Hunting licenses:</b>								
Total license sales <sup>1</sup>	1,000	12,638	14,192	18,440	18,175	18,679	19,059	19,372
Resident	1,000	12,441	13,853	17,808	17,519	17,900	18,175	18,518
Nonresident	1,000	197	339	632	656	779	884	854
Cost to hunters	\$1,000	37,641	42,791	60,981	63,984	68,106	72,071	75,173
<b>Fishing licenses:</b>								
Total license sales <sup>1</sup>	1,000	15,338	18,855	23,323	23,084	23,976	24,472	24,976
Resident	1,000	13,309	16,212	20,190	20,015	20,761	21,166	21,576
Nonresident	1,000	2,029	2,643	3,133	3,069	3,215	3,306	3,400
Cost to anglers	\$1,000	34,018	39,502	52,143	54,163	57,780	60,213	62,857
Federal duck stamps sold <sup>2</sup>	1,000	1,955	2,185	1,629	1,346	1,148	1,455	1,566

<sup>1</sup> Prior to 1960, paid license holders; for definition, see footnote 1, table 296. <sup>2</sup> Total for 1967 is 1,805,000.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Federal Aid in Fish and Wildlife Restoration*.

No. 296. NUMBER AND COST OF STATE FISHING AND HUNTING LICENSES, BY STATES: 1966

[For year ending June 30. Excludes Migratory Waterfowl Stamps (Duck Stamps)]

STATE	PAID LICENSE HOLDERS <sup>1</sup> (1,000)		COST OF LICENSES <sup>2</sup> (\$1,000)		STATE	PAID LICENSE HOLDERS <sup>1</sup> (1,000)		COST OF LICENSES <sup>2</sup> (\$1,000)	
	Fish- ing	Hunt- ing	Fish- ing	Hunt- ing		Fish- ing	Hunt- ing	Fish- ing	Hunt- ing
	United States	21,329	14,352	67,165	77,278	Missouri	704	356	2,725
Alabama	451	349	966	835	Montana	221	155	1,057	1,277
Alaska	66	43	416	601	Nebraska	219	199	929	1,772
Arizona	266	133	1,081	1,032	Nevada	108	64	388	856
Arkansas	530	259	1,765	1,131	New Hampshire	125	88	560	683
California	1,928	701	8,290	4,049	New Jersey	146	165	830	974
Colorado	442	280	1,604	5,125	New Mexico	139	96	730	973
Connecticut	119	63	572	335	New York	745	704	2,453	3,919
Delaware	10	26	28	88	North Carolina	388	417	1,176	1,483
Florida	533	209	1,567	1,074	North Dakota	102	77	168	468
Georgia	663	328	833	800	Ohio	918	598	2,076	1,450
Hawaii	4	7	12	50	Oklahoma	527	236	1,175	764
Idaho	236	183	1,881	1,468	Oregon	564	341	2,103	2,156
Illinois	695	459	1,468	1,569	Pennsylvania	513	955	2,487	6,291
Indiana	639	490	1,180	964	Rhode Island	18	14	55	45
Iowa	404	283	1,034	995	South Carolina	283	200	670	660
Kansas	284	193	875	720	South Dakota	195	140	376	916
Kentucky	388	249	1,287	825	Tennessee	696	367	1,553	1,334
Louisiana	231	281	494	765	Texas	1,017	601	2,035	1,951
Maine	213	188	802	1,317	Utah	250	197	773	1,074
Maryland	123	178	391	955	Vermont	115	135	280	811
Massachusetts	211	135	888	525	Virginia	364	365	1,088	1,689
Michigan	908	927	2,694	5,723	Washington	441	314	2,208	2,428
Minnesota	1,812	394	3,157	2,344	West Virginia	209	233	622	862
Mississippi	363	279	588	758	Wisconsin	1,052	576	4,572	3,600
					Wyoming	160	122	623	2,400

<sup>1</sup> Resident and nonresident. U.S. total includes multiple counting of license holders who bought 1 or more nonresident licenses as well as a license for their own home State.

<sup>2</sup> Total cost to fishermen or hunters for all licenses, permits, tags, stamps, etc.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Federal Aid in Fish and Wildlife Restoration*.

No. 297. NUMBER OF SPORT FISHERMEN AND HUNTERS: 1960 AND 1965

[In thousands. For 1960, persons 12 years old and over who fished and hunted; for 1965, persons 12 years old and over who spent \$5 or more and reported 3 or more fishing and hunting recreation days during the year. Based on samples of approximately 18,000 households. For composition of divisions, see fig. I, p. xii]

ITEM	1960		1965		On trips lasting more than 1 day		
	Total persons	Total who fished and/or hunted	Total persons	Total who fished and/or hunted			
	Total	persons	Total	persons	Total	persons	
Total	131,226	30,435	141,928	32,881	9,050	28,348	13,583
By division:							
New England	8,349	1,368	9,256	1,650	421	1,488	583
Middle Atlantic	26,493	3,432	27,346	3,602	789	2,760	375
East North Central	26,833	6,316	28,124	6,214	1,085	5,336	847
West North Central	10,149	3,383	11,681	3,678	1,168	3,228	1,620
South Atlantic	17,798	4,423	20,593	5,626	1,328	5,054	1,900
East South Central	9,277	2,778	9,652	2,587	908	2,201	1,294
West South Central	11,837	3,666	12,724	3,713	1,136	3,278	1,346
Mountain	5,222	1,646	5,029	1,565	684	1,261	988
Pacific	15,268	3,422	17,523	4,248	931	3,744	1,433
By residence:							
Big cities	22,059	2,365	22,539	2,945	553	2,705	793
Small cities and suburbs	35,358	6,376	56,298	11,868	2,692	10,744	3,814
Towns and rural areas	73,800	21,693	63,093	18,070	5,805	14,899	8,976
By sex:							
Male	62,732	23,171	67,508	25,216	8,582	20,994	12,804
Female	68,494	7,264	74,420	7,665	468	7,354	7,803

Source: Dept. of the Interior, Fish and Wildlife Service; *National Survey of Fishing and Hunting, 1960 and 1965*.

# Fishermen and Hunters—Wildlife Refuges—Fish Hatcheries 205

## No. 298. EXPENDITURES OF SPORT FISHERMEN AND HUNTERS: 1965

[Data refer to persons 12 years old and over who spent \$5 or more and reported 3 or more fishing and hunting recreation days during 1965. Based on a sample of approximately 18,000 households]

ITEM	TOTAL PERSONS		PERSONS WHO FISHED		PERSONS WHO HUNTED	
	Total spent (mil. dol.)	Average per person <sup>1</sup>	Total spent (mil. dol.)	Average per person	Total spent (mil. dol.)	Average per person
Total.....	4,046	\$123.06	2,925	\$103.19	1,121	\$82.54
Food.....	456	13.88	340	12.01	116	8.53
Lodging.....	125	3.81	104	3.67	21	1.58
Transportation:						
Automobile.....	556	16.92	400	14.10	157	11.53
Bus, rail, air, and water.....	41	1.25	29	1.03	12	.86
Equipment:						
Boats and motors.....	655	19.93	626	22.08	29	2.16
General auxiliary equipment <sup>2</sup> .....	257	7.81	161	5.67	96	7.09
Fishing and/or hunting equipment.....	721	21.92	324	11.41	397	29.25
Licenses, tags, and permits.....	136	4.14	68	2.40	68	5.02
Duck stamps.....	4	.12	(X)	(X)	4	.28
Annual lease and privilege fees.....	27	.81	11	.40	15	1.12
Daily entrance and privilege fees.....	71	2.15	52	1.83	19	1.38
Bait, guide fees, and other trip expenses.....	778	23.65	755	26.62	23	1.71
Other <sup>3</sup> .....	219	6.67	56	1.97	163	12.04

<sup>X</sup> Not applicable. <sup>1</sup> Includes expenditures of those who fished or hunted or both.

<sup>2</sup> Includes tents, sleeping gear, cooking and eating utensils, special clothing, lanterns, binoculars, trailers, cabins, and other equipment used primarily for fishing and hunting.

<sup>3</sup> Includes boat launching fees for fishermen, dogs for hunters, costs of fishing and hunting magazines, general club dues, and other miscellaneous expenditures.

Source: Dept. of the Interior, Fish and Wildlife Service; *National Survey of Fishing and Hunting, 1965*.

## No. 299. NATIONAL WILDLIFE REFUGES AND FISH HATCHERIES—STATES AND PUERTO RICO: 1967

[As of June 30. For data on waterfowl production areas, see footnote 1]

STATE OR OTHER AREA	WILDLIFE REFUGES		FISH HATCHERIES		STATE OR OTHER AREA	WILDLIFE REFUGES		FISH HATCHERIES	
	Num- ber	Acres (1,000)	Num- ber	Acres		Num- ber	Acres (1,000)	Num- ber	Acres
Total.....	319	27,884	97	18,952	Montana.....	20	1,125	4	532
Alabama.....	3	47	2	664	Nebraska.....	4	146	1	501
Alaska.....	17	18,637	-	-	Nevada.....	8	2,251	-	31
Arizona.....	5	1,573	3	161	New Hampshire.....	-	-	2	549
Arkansas.....	4	136	4	241	New Jersey.....	3	24	-	-
California.....	13	204	1	55	New Mexico.....	5	145	3	288
Colorado.....	3	26	3	3,331	New York.....	4	18	1	137
Delaware.....	3	20	-	-	North Carolina.....	7	103	4	728
Florida.....	18	329	1	466	North Dakota.....	63	283	3	199
Georgia.....	7	392	4	289	Ohio.....	3	7	2	337
Hawaii.....	1	2	-	-	Oklahoma.....	4	116	1	203
Idaho.....	5	68	2	212	Oregon.....	13	464	1	787
Illinois.....	5	84	-	-	Pennsylvania.....	1	5	1	209
Indiana.....	1	1	-	-	Rhode Island.....	-	-	-	26
Iowa.....	2	67	3	86	South Carolina.....	3	162	4	468
Kansas.....	3	50	2	531	South Dakota.....	5	37	3	722
Kentucky.....	2	38	1	114	Tennessee.....	4	79	2	126
Louisiana.....	7	239	1	97	Texas.....	8	135	4	283
Maine.....	2	23	1	135	Utah.....	4	94	1	487
Maryland.....	5	18	-	-	Vermont.....	1	5	1	26
Massachusetts.....	3	9	1	402	Virginia.....	2	16	5	906
Michigan.....	5	105	4	1,856	Washington.....	16	112	9	1,720
Minnesota.....	6	104	1	105	West Virginia.....	-	-	3	215
Mississippi.....	5	59	3	351	Wisconsin.....	5	149	2	75
Missouri.....	4	43	1	261	Wyoming.....	5	45	2	40
					Puerto Rico.....	2	3	-	-

<sup>-</sup> Represents zero.

<sup>1</sup> Waterfowl production areas as follows, in units and acres respectively: Maine, 1 and 116; Minnesota, 19 and 70,580; Nebraska, 7 and 7,781; North Dakota, 39 and 441,868; and South Dakota, 42 and 156,092.

Source: Dept. of the Interior, Fish and Wildlife Service; unpublished data.

**No. 300. PARTICIPATION IN SELECTED OUTDOOR ACTIVITIES—PERSONS 12 YEARS OLD AND OVER: 1965**

[Data pertain to the 1965 summer season only, with the exception of hunting and the three winter activities. The data for these activities are for the period September 1964 through May 1965. Based on a nationwide survey of outdoor recreation interests and participation of persons 12 years old and over, conducted by the Bureau of the Census, consisting of one sample involving approximately 7,200 interviews.]

OUTDOOR ACTIVITY	PARTICIPANTS		Average number of days per participant <sup>1</sup>	Number of days of participation, total (millions)	OUTDOOR ACTIVITY	PARTICIPANTS		Average number of days per participant <sup>1</sup>	Number of days of participation, total (millions)
	Number (millions)	Rank				Number (millions)	Rank		
Picnicking.....	80.5	1	5.6	451	Attending outdoor concerts and plays.....	15.5	14	3.0	47
Driving for pleasure.....	77.7	2	12.1	940	Camping.....	14.1	15	6.9	97
Sightseeing.....	69.2	3	6.6	457	Ice skating.....	12.7	16	(*)	(*)
Swimming.....	67.8	4	14.3	970	Horseback riding.....	11.3	17	6.8	77
Walking for pleasure.....	67.8	5	15.2	1,031	Hiking.....	9.9	18	5.1	50
Playing outdoor games and sports.....	53.7	6	17.3	929	Water skiing.....	8.5	19	6.6	56
Fishing.....	42.4	7	7.6	322	Bird watching.....	7.1	20	15.9	13
Attending outdoor sports events.....	42.4	8	5.8	246	Snow skiing.....	5.7	21	(*)	(*)
Boating <sup>2</sup> .....	33.9	9	6.5	220	Canoeing.....	4.2	22	4.5	19
Bicycling.....	22.6	10	20.6	466	Sailing.....	4.2	23	6.2	26
Nature walks.....	19.8	11	5.9	117	Wildlife and bird photography.....	2.8	24	5.9	17
Sledding.....	18.4	12	(*)	(*)	Mountain climbing.....	1.4	25	3.1	4
Hunting.....	17.0	13	(*)	(*)					

<sup>1</sup> Data refer to number of days that individuals participated regardless of amount of time spent in participation.

<sup>2</sup> Other than canoeing and sailing.

<sup>3</sup> The 1965 survey did not measure activity days for ice skating, snow skiing, sledding, and hunting.

Source: Dept. of the Interior, Bureau of Outdoor Recreation; *The 1965 Survey of Outdoor Recreation Activities*. October 1967.

**No. 301. PERSONAL CONSUMPTION EXPENDITURES FOR RECREATION: 1940 TO 1966**

[In millions of dollars. Represents market value of purchases of goods and services by individuals and nonprofit institutions. Prior to 1960, excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series H 500-515]

TYPE OF PRODUCT OR SERVICE	1940	1945	1950	1955	1960	1963	1964	1965	1966
Total recreation expenditures.....	3,761	6,139	11,147	14,078	18,295	22,213	24,571	26,386	28,673
Books and maps.....	234	520	674	867	1,304	1,620	1,969	2,049	2,350
Magazines, newspapers, and sheet music.....	589	965	1,495	1,369	2,193	2,521	2,735	2,844	2,995
Nondurable toys and sport supplies.....	306	553	1,394	1,803	2,417	2,986	3,174	3,408	3,690
Wheel goods, durable toys, sports equipment, boats, and pleasure aircraft.....	254	400	869	1,386	2,106	2,538	2,805	2,985	3,304
Radio and television receivers, records, and musical instruments.....	494	344	2,421	2,869	3,412	4,539	5,409	6,110	6,902
Radio and television repair.....	32	88	283	518	801	906	954	1,032	1,114
Flowers, seeds, and potted plants.....	201	378	457	546	641	842	870	976	1,063
Admissions to specified spectator amusements.....	904	1,714	1,781	1,801	1,806	1,892	1,762	1,811	1,846
Motion picture theaters.....	735	1,450	1,376	1,326	951	904	913	927	929
Legitimate theaters and opera, and entertainments of nonprofit institutions (except athletics).....	71	148	183	245	365	446	484	495	533
Spectator sports.....	98	116	222	230	290	342	305	389	384
Clubs and fraternal organizations <sup>1</sup> .....	203	281	462	569	733	808	854	879	847
Commercial participant amusements <sup>2</sup> .....	197	284	448	584	1,161	1,443	1,486	1,512	1,540
Parl-mutuel net receipts.....	55	153	239	381	517	626	694	734	765
Other <sup>3</sup> .....	292	459	624	887	1,404	1,692	1,859	2,046	2,197

<sup>1</sup> Gross receipts less cash benefits of fraternal, patriotic, and women's organizations except insurance; and dues and fees of athletic, social, and luncheon clubs, and school fraternities.

<sup>2</sup> Billiard parlors; bowling alleys; dancing, riding, shooting, skating, and swimming places; amusement devices and parks; daily fee golf greens fees; golf instruction, club rental, and caddy fees; sightseeing buses and guides; and private flying operations.

<sup>3</sup> Photo developing and printing, photographic studios, collectors' net acquisitions of stamps and coins, hunting dog purchase and training, sports guide service, veterinary service, purchase of pets, camp fees, nonvending coin machine receipts minus payoff, and other commercial amusements.

Source: Dept. of Commerce, Office of Business Economics; *The National Income and Product Accounts of the United States, 1929-1966: Statistical Tables and Survey of Current Business*, July 1967.

## No. 302. SELECTED RECREATIONAL ACTIVITIES: 1950 TO 1967

[See also *Historical Statistics, Colonial Times to 1957*, series H 516-522, and H 525]

ACTIVITY	UNIT	1950	1955	1960	1964	1965	1966	1967
Baseball, major leagues: <sup>1</sup>								
Attendance <sup>2</sup>	1,000	17,659	16,980	20,261	21,602	22,801	25,424	24,196
Regular season	1,000	17,463	16,617	19,911	21,280	22,437	25,203	23,892
National league	1,000	8,321	7,674	10,685	12,045	13,581	15,015	12,894
American league	1,000	9,142	8,943	9,227	9,235	8,861	10,188	10,098
World series	1,000	196	362	350	322	364	221	304
Softball, amateur, Amateur Softball Association of America:								
Teams	1,000	1,355	1,367	1,378	492	560	702	735
Leagues	1,000	159	161	163	81	109	260	268
Participants <sup>4</sup>	1,000	(NA)	(NA)	18	12	13	18	20
Attendance <sup>4</sup>	1,000	(NA)	(NA)	112	17	20	22	22
Youth program (established 1958):								
Teams	1,000	(X)	(X)	13.5	10.4	11.3	14.2	14.9
Leagues	1,000	(X)	(X)	10.7	2.4	3.7	4.9	5.1
Participants	1,000	(X)	(X)	148	201	268	392	398
Golf, Nat'l Golf Foundation, Inc.:								
Golfers <sup>5</sup>	1,000	13,215	13,500	4,400	7,000	7,750	8,525	9,100
Courses	Number	14,931	15,218	6,385	7,893	8,323	8,672	9,336
Size:								
9-hole	Number	12,972	13,048	3,660	4,397	4,554	4,786	5,069
18-hole and larger	Number	11,959	12,170	2,725	3,496	3,769	3,886	4,267
Classification:								
Private	Number	13,049	12,807	3,236	3,764	3,887	4,016	4,166
Semiprivate	Number	11,141	11,534	2,254	3,114	3,368	3,483	3,960
Municipal	Number	1741	1877	895	1,015	1,068	1,173	1,210
Basketball, professional, Nat'l Basketball Assoc., attendance <sup>1,6</sup>	1,000	(NA)	(NA)	1,986	2,500	2,750	3,102	3,120
Football:								
Collegiate, Nat'l Collegiate Athletic Association:								
Teams	Number	7,674	7,621	620	622	616	616	610
Attendance	1,000	718,962	717,267	20,403	23,354	24,683	25,276	26,431
Professional, Nat'l Football League:								
Attendance	1,000	2,008	2,608	3,195	4,642	4,685	5,411	6,025
Regular season	1,000	1,978	2,522	3,128	4,563	4,634	5,387	5,950
Championship games	1,000	30	86	67	79	51	74	75
Professional, American Football League:								
Attendance	1,000	(X)	(X)	958	1,488	1,812	2,202	2,500
Regular season	1,000	(X)	(X)	926	1,447	1,782	2,160	2,450
Championship games	1,000	(X)	(X)	32	41	30	42	50
Boxing, professional matches: <sup>8</sup>								
Boxers <sup>9</sup>	Number	10 3,940	10 3,120	10 2,920	2,478	2,202	2,064	11 3,056
Receipts, gross <sup>12</sup>	\$1,000	10 3,800	10 6,335	10 5,902	7,948	8,264	5,188	11 6,140
Racing, National Association of State Racing Commissioners: <sup>1</sup>								
Horseracing: <sup>13</sup>								
Racing days	Number	4,018	4,899	6,099	7,561	8,051	8,384	8,621
Attendance	1,000	29,291	38,503	46,879	60,595	62,887	63,577	63,373
Parimutuel turnover	Mil. dol.	1,638	2,592	3,358	4,402	4,615	4,784	4,922
Revenue to States	Mil. dol.	98	187	258	350	370	388	394
Monies distributed, total <sup>14</sup>	Mil. dol.	47	85	111	154	165	177	175
Greyhound racing:								
Racing days	Number	1,738	2,143	2,478	2,747	2,443	2,865	2,914
Attendance	1,000	6,083	7,181	7,924	10,165	10,865	11,121	11,454
Parimutuel turnover	Mil. dol.	167	242	322	421	460	497	539
Revenue to States	Mil. dol.	11	17	22	29	33	36	37
Monies distributed, total <sup>14</sup>	Mil. dol.	(NA)	(NA)	7	9	10	11	11
Bowling:								
Tenpin, American Bowling Congress: <sup>6</sup>								
Establishments	Number	16,325	16,636	8,997	10,839	10,752	10,457	10,070
Lanes	Number	152,483	158,203	107,908	158,996	159,079	156,219	151,731
Membership:								
American Bowling Congress	1,000	11,417	11,738	3,665	4,945	4,944	4,884	4,625
Women's Bowling Congress	1,000	1,496	1,706	1,543	2,607	2,736	2,821	2,896
Amer. Jr. Bowling Congress	1,000	124	167	330	315	330	349	378
Duckpin, Nat'l Duckpin Bowling Congress: <sup>15</sup>								
Establishments	Number	463	556	653	694	641	576	545
Lanes	Number	5,550	6,875	8,707	9,210	8,714	7,814	7,181
Teams	Number	28,665	46,552	62,067	78,944	80,818	79,582	78,767

See footnotes at end of table.

## No. 302. SELECTED RECREATIONAL ACTIVITIES: 1950 TO 1967—Continued

ACTIVITY	UNIT	1950	1955	1960	1964	1965	1966	1967
Motion picture theaters: <sup>1</sup> <sup>16</sup>								
Attendance, average weekly	Millions	60	46	40	44	44	(NA)	(NA)
Receipts, gross	Mil. dol.	1,320	1,185	1,483	1,726	1,980	<sup>11</sup> 1,790	(NA)
Admission, average price	Cents	44	50	69	76	85	<sup>11</sup> 87	(NA)
Outboard motors and boats, Boating Industry Association:								
Motors in use	1,000	2,811	4,210	5,800	6,564	6,645	6,784	<sup>11</sup> 6,904
Motors sold	1,000	1,367	1,515	468	390	393	440	<sup>11</sup> 444
Value, retail	Mil. dol.	163	153	221	180	183	221	<sup>11</sup> 226
Horsepower, average	(X)	16.9	12.9	27.4	30.3	250	250	<sup>11</sup> 30.1
Outboard boats sold	1,000	117 131	117 258	17 294	250	250	266	<sup>11</sup> 260
Value, retail	Mil. dol.	(NA)	(NA)	(NA)	131	133	146	<sup>11</sup> 148
Length, average	Feet	(NA)	(NA)	(NA)	15.4	15.3	15.4	<sup>11</sup> 15.3
Inboard/outdrive boats sold	1,000	(17)	(17)	(17)	12	17	32	<sup>11</sup> 36
Value, retail	Mil. dol.	(NA)	(NA)	(NA)	46	64	121	<sup>11</sup> 142
Boat trailers sold	1,000	118	120	206	130	130	153	<sup>11</sup> 160
Value, retail	Mil. dol.	(NA)	(NA)	(NA)	29	29	34	<sup>11</sup> 36

NA Not available. X Not applicable. <sup>1</sup> Excludes Alaska and Hawaii.<sup>2</sup> Source: *World Almanac* (copyright). <sup>3</sup> Total adult participation, men and women. <sup>4</sup> Includes attendance at national championships. <sup>5</sup> 1964 all golfers, other years those playing 15 rounds or more per year.<sup>6</sup> Season ending in year shown. <sup>7</sup> Excludes Hawaii. <sup>8</sup> Source: *The Ring* (copyright). Beginning 1964, includes Guam. <sup>9</sup> Includes all boxers listed for one or more bouts. <sup>10</sup> Excludes Alaska. <sup>11</sup> Estimated or preliminary as applicable. <sup>12</sup> Excludes closed circuit TV receipts. <sup>13</sup> Includes thoroughbred, harness, quarter horse, and fairs. <sup>14</sup> Stakes and purses. <sup>15</sup> Season beginning in year shown.<sup>16</sup> Source: *The Film Daily Yearbook of Motion Pictures*: 1967 (copyright).<sup>17</sup> Inboard/outdrive boats sold included with outboard boats sold.

Source: Compiled from sources listed in stub of table and footnotes.

## No. 303. MUSEUMS—SUMMARY: 1952 TO 1962

[Based on a survey covering 3,433 U.S. museums, including 2 in Puerto Rico and 1 in the Virgin Islands, which responded to a questionnaire mailed to 6,000 museums in the United States and Canada. Museums were classified by their primary collection or interest]

TYPE	MUSEUMS REPORTING, 1962		ATTENDANCE <sup>1</sup> (1,000)			PERCENT <sup>2</sup> OFFERING IN 1962—				
	Number	Percent	1952	1957	1962	Guided tours	Lectures	Films	Gallery talks	Concerts
Total	3,443	100	83,189	121,870	184,767	62	44	23	15	9
Historic buildings <sup>3</sup>	1,019	30	7,064	12,488	20,749	75	28	9	4	3
History <sup>4</sup>	825	24	9,808	16,797	26,720	62	42	20	9	4
Art	364	11	11,071	13,496	22,005	61	70	48	60	40
Science	300	9	15,015	18,342	34,246	63	58	38	11	3
Live <sup>5</sup>	225	6	24,912	32,748	44,664	67	47	17	2	3
Other museums <sup>6</sup>	320	9	14,920	27,243	35,209	54	48	32	15	10
Related organizations <sup>7</sup>	390	11	399	755	1,174	32	46	22	17	8

<sup>1</sup> Based on reports from 1,964 (57 percent) of the 3,443 museums reporting in 1962, covering the 3 years shown.<sup>2</sup> Based on reports from 2,752 museums. <sup>3</sup> Includes restorations. Primary interest is in the buildings.<sup>4</sup> Includes technical museums whose collections are primarily historical.<sup>5</sup> All organizations collecting and exhibiting living animals and plants.<sup>6</sup> Comprises museums of anthropology and archaeology, libraries with special collections, children's museums, and museums in which art, history, and science are almost equally represented.<sup>7</sup> Organizations with no collection.Source: American Association of Museums, Washington, D.C.; *A Statistical Survey of Museums in the United States and Canada* (copyright).

## No. 304. SYMPHONY ORCHESTRAS—SUMMARY: 1950 TO 1965

[For years ending Aug. 31. Orchestras other than college are principally defined by their annual budgets: Community, under \$100,000; metropolitan, \$100,000 to \$499,999; and major, over \$500,000. Based on surveys and other data]

ITEM	1950	1955	1960	1961	1962	1963	1964	1965
Symphony orchestras, total	839	1,029	1,226	1,259	1,301	1,348	1,363	1,385
College	231	240	250	258	265	280	284	290
Community	581	761	933	955	987	1,016	1,025	1,032
Metropolitan	(X)	(X)	18	21	24	27	29	38
Major	27	28	25	25	25	25	25	25
MAJOR ORCHESTRAS								
Musicians	2,319	2,079	(NA)	2,202	2,043	2,188	2,207	2,216
Concerts played	2,016	2,257	(NA)	2,578	2,651	2,782	2,877	2,987
Attendance	5,072	4,900	(NA)	5,502	5,700	6,000	6,400	6,750
Gross expenditures	\$1,000	10,653	13,838	(NA)	22,762	22,600	22,800	24,100

NA Not available. X Not applicable. <sup>1</sup> Classification effective beginning 1958.

Source: American Symphony Orchestra League, Inc., Vienna, Va.; unpublished data.

No. 305. PERFORMING ARTS—SELECTED DATA: 1955 TO 1965  
 [For season ending in year shown, except as indicated]

ITEM	1955	1960	1963	1964	1965
THEATER (legitimate)					
Broadway:					
Shows.....	72	76	71	82	(NA)
New productions (including revivals).....	58	58	54	63	(NA)
Performances.....	8,917	9,214	8,954	7,975	(NA)
Average weekly attendance, February.....	1,000	182	184	154	(NA)
Off Broadway:					
Productions.....	41	114	105	131	110
New <sup>1</sup> .....	41	100	90	107	87
Performances.....	1,883	6,803	8,323	9,206	6,702
DANCE GROUPS <sup>2</sup>					
Professional.....	(NA)	139	169	106	(NA)
Foreign or ethnic <sup>3</sup> .....	(NA)	44	70	80	(NA)
American <sup>3</sup> .....	(NA)	95	99	116	(NA)
Tours, October:					
Towns and cities visited.....	4 106	142	251	117	(NA)
Performances.....	4 115	192	277	101	(NA)
Performances, New York City, Oct.-Feb.....	197	191	191	222	340
OPERA					
Companies <sup>4</sup> .....	543	754	795	754	(NA)
Performances.....	3,217	4,232	4,600	3,877	(NA)
MAJOR ORCHESTRAS (averages per orchestra) <sup>5</sup>					
Length of season..... weeks.....	26	7 28	29	30	(NA)
Paid concerts.....	94	7 120	121	128	(NA)
Home.....	67	7 87	91	96	(NA)
Tour.....	27	7 33	30	32	(NA)
Paid attendance.....	1,000	216	263	278	(NA)

NA. Not available. <sup>1</sup> Comprises new musicals and plays, revivals, special productions, and presentations of special companies and visiting foreign troupes.

<sup>2</sup> Comprises groups of more than 2 dancers having an active repertoire of at least 1 full program, a company organization separate from a school group, and at least 2 performances before paying audiences. Based on reports to *Dance Magazine's "Annual Directory of Dance Attractions."* <sup>3</sup> Classification estimated.

<sup>4</sup> 1955 data. <sup>5</sup> Comprises high school, college, other amateur, and professional companies.

<sup>6</sup> Data are arithmetic means for 11 major orchestras, as follows: Chicago, Cincinnati, Cleveland, Indianapolis, Kansas City, Minneapolis, National, Philadelphia, Pittsburgh, St. Louis, and San Francisco.

<sup>7</sup> For season ending in 1961.

Source: William J. Baumol and William G. Bowen; *Performing Arts—The Economic Dilemma*. Copyright 1966 by the Twentieth Century Fund, Inc.

#### No. 306. VOLUME AND CHARACTERISTICS OF TRAVEL: 1963

[Number in millions. Based on interviews with nationwide probability sample of about 6,000 households concerning trips that ended between January 1 and December 31, 1963. Subject to sampling error]

ITEM	TRIPS <sup>1</sup>		TRAVELERS <sup>2</sup>		ITEM	TRIPS <sup>1</sup>		TRAVELERS <sup>2</sup>	
	Num- ber	Per- cent	Num- ber	Per- cent		Num- ber	Per- cent	Num- ber	Per- cent
Total.....	257	100	487	100	Distance:				
Purpose of trip:					Under 100 miles.....	119	46	224	46
Business.....	54	21	66	14	100 to 199 miles.....	73	28	141	29
Visit friends and relatives.....	103	40	219	45	200 to 499 miles.....	41	16	78	16
Other pleasure trips.....	55	21	123	26	500 or more.....	19	8	34	7
Personal and family affairs.....	45	18	79	16	Outside U.S.....	5	2	10	2
Transportation:					Duration of trip:				
Automobile.....	215	84	435	89	1-day trip.....	17	6	32	7
Bus.....	11	4	13	3	Overnight trips:				
Air.....	14	5	17	4	1 night.....	78	31	157	32
Rail.....	8	3	10	2	2 nights.....	66	26	127	26
Other.....	9	4	12	2	3 to 5 nights.....	49	19	87	18
Size of party:					6 to 9 nights.....	21	8	39	8
1 person.....	141	55	141	29	10 or more.....	26	10	45	9
2 persons.....	58	23	116	24	Accommodations <sup>3</sup> :	(X)	(X)	2,022	100
3 or 4 persons.....	42	16	145	30	Commercial lodgings.....	(X)	(X)	487	24
5 or more.....	16	6	85	17	Friends and relatives.....	(X)	(X)	1,032	51
X. Not applicable.					Own cottage.....	(X)	(X)	185	9
<sup>1</sup> A trip involves 1 or more members of a household going out of town overnight or going to a place 100 miles or more on a 1-day trip. Comprises trips taken for all purposes, including attending school out-of-town.					Other.....	(X)	(X)	319	16
<sup>2</sup> A traveler is a person on a trip and is counted each time he takes a trip.									
<sup>3</sup> Accommodations shown in traveler-night units, defined as the number of nights each person spent on the trip, exclusive of accommodations used by students while attending school out-of-town.									

Source: Dept. of Commerce, Bureau of the Census; 1963 Census of Transportation, Vol. I, *Transportation Survey*.

## No. 307. FOREIGN TRAVEL—TRAVELERS AND EXPENDITURES: 1929 TO 1967

[Travelers in thousands; expenditures in millions of dollars. Covers residents of United States and Puerto Rico]

ITEM AND COUNTRY	1929	1937	1947	1950	1955	1960	1965	1966	1967
Total overseas travelers <sup>1</sup>	517	435	435	676	1,075	1,634	2,623	2,975	3,425
Means of transport from United States:									
Sea	(NA)	(NA)	(NA)	298	318	317	237	220	167
Air	(NA)	(NA)	(NA)	378	757	1,317	2,386	2,765	3,258
Region of destination:									
Europe and Mediterranean	350	248	149	302	482	832	1,405	1,570	1,800
West Indies and Central America	136	153	245	323	522	641	891	1,050	1,220
South America	8	9	27	38	34	71	127	130	175
Other	23	24	14	13	37	90	200	225	230
Total expenditures <sup>2</sup>	688	470	716	1,022	1,612	2,623	3,768	4,047	4,740
Transportation: <sup>3</sup>									
Foreign flag carriers <sup>4</sup>	164	95	55	145	201	513	720	755	830
United States flag carriers <sup>4</sup>	41	27	88	123	258	360	610	635	713
Expenditures abroad	483	348	573	754	1,153	1,750	2,438	2,657	3,195
Canada	178	156	241	261	306	380	600	678	1,070
Mexico	36	44	140	172	255	383	540	575	590
Total overseas areas	269	148	192	321	592	987	1,298	1,404	1,535
Europe and Mediterranean	213	97	107	225	430	692	864	920	1,018
West Indies and Central America	37	35	56	61	107	166	220	259	295
South America	5	4	16	22	22	45	68	65	70
Other	14	12	13	13	33	84	146	160	152

NA Not available.

<sup>1</sup> Excludes the following: Travel to Canada and Mexico; travel between conterminous United States and Alaska, Hawaii, Puerto Rico, and Virgin Islands; cruise travels; military personnel and other Government employees and their dependents stationed abroad, and U.S. citizens residing abroad. <sup>2</sup> Includes shore expenditures of cruise travelers; excludes travel expenditures of military personnel and other Government employees and their dependents stationed abroad, and U.S. citizens residing abroad. <sup>3</sup> Excludes passenger fares of emigrant aliens.

<sup>4</sup> Beginning 1960, new series; not comparable with earlier years.

## No. 308. TRAVEL TO EUROPE AND THE MEDITERRANEAN AREA—TRAVELERS AND AVERAGE EXPENDITURE: 1950 TO 1967

[Travelers in thousands. Covers residents of United States and Puerto Rico, except as noted]

ITEM	1950	1955	1960	1964	1965	1966	1967
Total travelers	302	482	832	1,250	1,405	1,570	1,800
U.S. born	(NA)	209	569	963	(NA)	(NA)	(NA)
Foreign born	(NA)	183	263	287	(NA)	(NA)	(NA)
Means of transport from United States:							
Sea	(NA)	214	230	223	184	175	132
Air	(NA)	268	602	1,027	1,221	1,395	1,668
Average expenditure and stay:							
Average per trip <sup>1</sup>	dollars	742	889	830	637	611	583
Average per day <sup>2</sup>	dollars	12.04	15.88	(NA)	15.64	15.67	15.75
Average length of stay <sup>3</sup>	days	2.64	56	(NA)	41	39	37

NA Not available. <sup>1</sup> Excludes transatlantic passenger fares. <sup>2</sup> U.S. citizens only.

## No. 309. FOREIGN TRAVEL TO THE UNITED STATES—TRAVELERS, 1955 TO 1967, AND EXPENDITURES, 1947 TO 1967

[Includes travelers for business and pleasure, foreigners in transit through the United States, and students; excludes travel by foreign government personnel and foreign businessmen employed in the United States]

AREA OF ORIGIN	TRAVELERS (1,000)				EXPENDITURES (mil. dol.)					
	1955	1960	1965	1967	1947	1950	1955	1960	1965	1967
Total	(NA)	(NA)	(NA)	(NA)	364	419	654	1,025	1,545	1,881
Fares to U.S. carriers <sup>1</sup>	(X)	(X)	(X)	(X)	(NA)	(NA)	(NA)	106	165	235
Canada	(NA)	(NA)	(NA)	(NA)	152	193	364	469	490	575
Mexico	(NA)	(NA)	(NA)	(NA)	64	69	110	226	390	457
Overseas areas	332	602	1,204	1,729	148	157	180	224	500	614
Europe and Mediterranean	131	274	584	866	64	56	61	90	205	230
West Indies, Central America, and South America	169	249	450	608	63	77	93	86	200	263
Other	32	79	170	255	22	24	26	48	95	121

NA Not available. X Not applicable.

<sup>1</sup> Includes fares paid to and from the United States only.

Source of tables 307-309: Dept. of Commerce, Office of Business Economics; Survey of Current Business.

## Section 8

### Labor Force, Employment, and Earnings

This section presents statistics dealing with the characteristics of the economically active segment of the population, the labor force; its distribution by occupation and industry affiliation; and the supply of, demand for, and conditions of labor.

The chief sources of these data are the Decennial Census of Population conducted by the Bureau of the Census (see text, p. 1); *Employment and Earnings and Monthly Report on the Labor Force* and *Monthly Labor Review*, issued by the Bureau of Labor Statistics; and *Farm Labor*, issued monthly by the Statistical Reporting Service, Department of Agriculture.

**Types of data.**—Statistics shown in this section are of two types. One type is obtained by the "population approach" used by the Bureau of the Census in the Census of Population and the Current Population Survey (see below). This approach involves enumeration and interrogation either by interview or by mail to obtain information on employment activity from workers or members of workers' households. Each employed worker is counted only once, even though he may have held two or more jobs during a given period.

The second type of data is obtained by the "establishment approach," represented by the industry surveys of the Bureau of Labor Statistics and the surveys of the Department of Agriculture's Statistical Reporting Service. These data are based on reports from employers, i.e., farms, businesses, or industrial establishments. Such data as wages, hours worked, labor turnover, and industry affiliation of employees can be more accurately obtained from employers' records than from inquiries directed to a worker or a member of his household. Workers appearing on more than one payroll for the same time period are counted more than once in establishment statistics.

The Census of Population provides detailed data for the United States and for each State, city, and other area. It includes personal characteristics (sex, age, race, etc.) of the numbers employed and unemployed, the numbers reported in each occupation and industry, and other items. The labor force survey provides current data published in *Employment and Earnings and Monthly Report on the Labor Force* and in related publications series of the Bureau of Labor Statistics. Data presented include national totals, by sex, color, and age, of the number of persons in the civilian labor force, the number employed in nonagricultural industries and in agriculture, the number unemployed, and the number of nonworkers. Also provided are data on hours of work and broad occupation groups of those employed, duration of unemployment of the unemployed, and work experience and job-seeking intentions of those not in the labor force.

In addition, the Bureau of Labor Statistics, in *Employment and Earnings and Monthly Report on the Labor Force*, provides detailed monthly data from establishment surveys on nonagricultural employment, unemployment, labor turnover, earnings, and hours worked. These data are shown for broad groupings in the *Monthly Labor Review*, which also presents statistics on wage rates, industrial relations, and output per man-hour. Certain of these data are shown for States and large cities. Historical statistics are shown in the Bureau of Labor Statistics Bulletin No. 1312-4, *Employment and Earnings Statistics for the United States, 1909-66*, and in No. 1370-3, *Employment and Earnings Statistics for States and Areas, 1939-65*.

**Current Population Survey.**—Monthly data on the labor force are collected and compiled for the Bureau of Labor Statistics as a part of the Current Population Survey, a nationwide sample survey conducted by the Bureau of the Census. (See text, p. 1.) According to current computations, the relative sampling error for summary estimates

such as civilian labor force, total employment, and nonagricultural employment is about 0.3 percent; for agricultural employment and for unemployment, it is roughly 2 to 4 percent. The chances are about 2 out of 3 that an estimate from the sample would differ from a complete census by less than the percentage estimated above for the particular item. The chances are about 19 out of 20 that the difference would be less than twice the specified percentage and about 99 out of 100 that it would be less than  $2\frac{1}{2}$  times the percentage. This sampling variability is illustrative of the variability of data based on the Current Population Survey. For further details, see the original releases of the Bureau of the Census and explanatory notes in the Bureau of Labor Statistics *Employment and Earnings and Monthly Report on the Labor Force*.

Statistics obtained from the Current Population Survey may differ from decennial census data because of sampling variability as well as differences in the training and experience of enumerators and in the enumeration procedures. For further information, see *U.S. Census of Population: 1960*, Vol. I.

**Labor force.**—Effective in January 1967, the lower limit for official statistics on the labor force was raised from 14 to 16 years of age. Data on employment status, collected in the Current Population Survey, relate to activity or status during the calendar week which includes the 12th of the month. Employed persons comprise all persons who, during that week, did any work for pay or profit, worked 15 hours or more as unpaid workers in a family enterprise, or did not work but had jobs or businesses from which they were temporarily absent. Unemployed persons comprise all persons not working during the survey week who had made specific efforts to find a job within the past 4 weeks and who were available for work, and persons who were on layoff from a job or waiting to report to a new job within 30 days. A detailed discussion of the survey and its methodology appears in *Concepts and Methods Used in Manpower Statistics From the Current Population Survey* (Report No. 313), available on request from the Bureau of Labor Statistics.

Labor force data collected in the 1960 Census relate to the first or second week of April for the majority of the population. "Experienced civilian labor force" refers to employed workers and unemployed workers with previous work experience.

**Employment and earnings.**—The monthly estimates of nonagricultural employment prepared by the Bureau of Labor Statistics are based on voluntary reports from establishments which, in March 1966, employed 12 million manufacturing workers (63 percent of total manufacturing employment at that time), 9 million workers in non-manufacturing industries except government (27 percent of the total in nonmanufacturing industries), and 7 million Federal, State, and local government employees (62 percent of the total in government). These reports are supplemented by data from other government agencies and adjusted at intervals to data from tabulations of reports under government social insurance programs. The monthly estimates exclude persons not normally on establishment payrolls, such as proprietors of unincorporated businesses, self-employed persons, domestic servants, unpaid family workers, agricultural workers, and persons in the Armed Forces. The employment data are for all employees, whether full- or part-time, who received pay for any part of the period reported.

Estimates are available on a continuous basis from 1919 for total nonfarm payroll employment and the 8 major industry divisions. Estimates for other periods are available for several hundred selected industries. Both total employment and production-worker estimates are published for 21 major manufacturing groups, 250 manufacturing subgroups, and 11 mining industries. Also, estimates for nonsupervisory workers are published for individual wholesale trade, retail trade, public utility, and some finance and service industries; estimates for construction workers are published for the contract construction industries; and 363 series are published for the employment of women.

Average weekly hours and average weekly and hourly earnings are available for over 350 series covering production and related workers in manufacturing and mining, construction workers in contract construction, and nonsupervisory workers in other selected nonmanufacturing industries. The earnings data are gross (before payroll deductions) and include overtime premiums; they exclude irregular bonuses and value of payments in kind. Hours are those for which pay was received.

Agricultural employment estimates and wage rates, obtained by means of monthly mail returns, have been issued since 1909 by the Department of Agriculture and appear monthly in *Farm Labor*.

**Output per man-hour.**—The Bureau of Labor Statistics prepares and publishes annual measures of output per man-hour according to two broad concepts. The first, physical output per man-hour, deals with the relationship between production in physical units and man-hours used in production; the second, net output per man-hour, with the relationship between value added (at fixed prices) and man-hours. Both indexes measure the relationship between production and one factor of input—labor time. They do not measure the specific contribution of labor or capital nor do they measure increased efficiency resulting from technological changes or changes in production procedures.

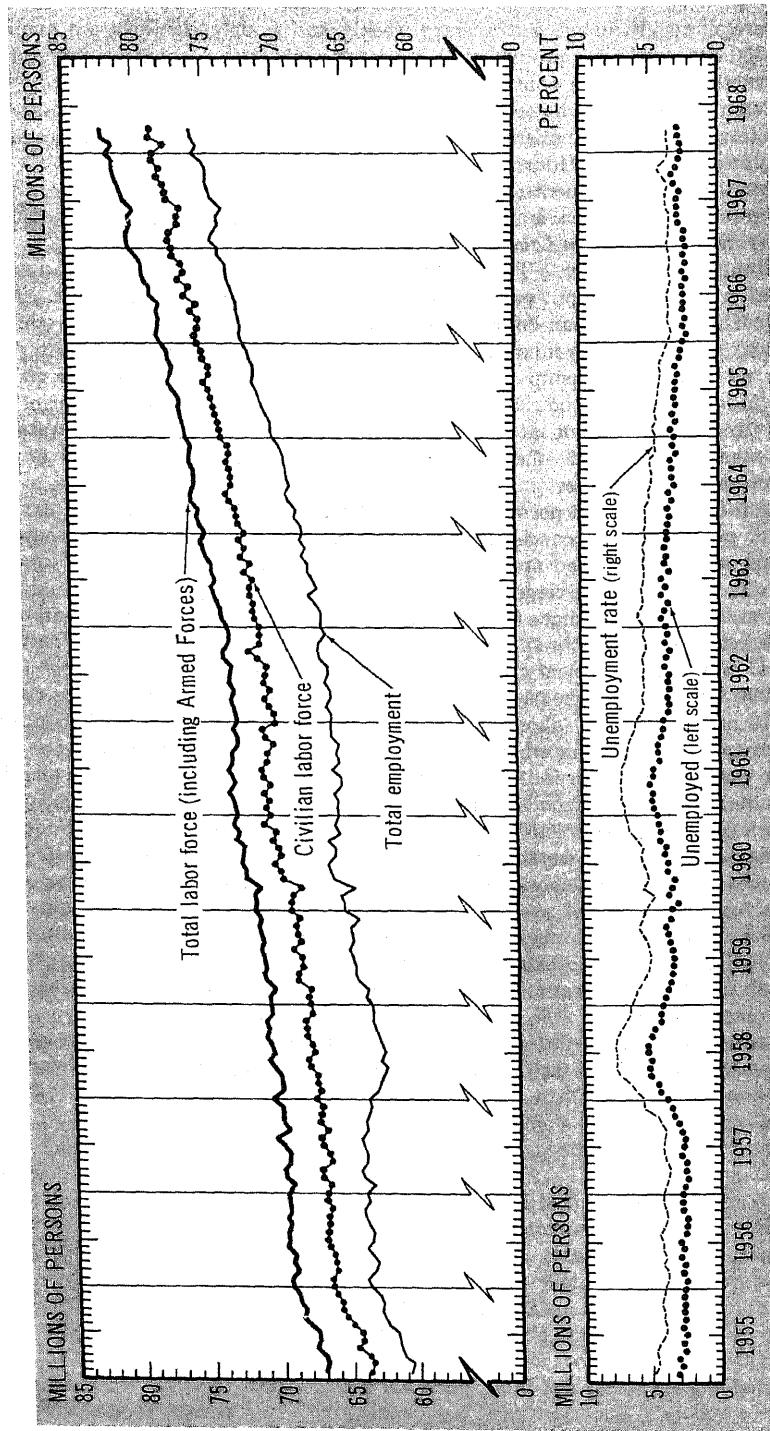
The indexes of output per man-hour for selected industries are based on the physical output per man-hour concept; measurements relating to the total economy and various sectors are based on the net output per man-hour concept. These indexes are influenced by the divergent movements of various industries which make up the total, as well as by changes in the relative importance of these components.

**Labor turnover.**—Labor turnover rates are published monthly in the *Monthly Labor Review* and in *Employment and Earnings* and *Monthly Report on the Labor Force* for over 220 industries on the basis of reports from cooperating establishments employing over 10 million workers (about 60 percent of the universe surveyed). Labor turnover data are available on a monthly basis from January 1930 for manufacturing as a whole. Labor turnover rates for individual industries and industry groups are available on a continuous basis only from January 1958.

**Work stoppages.**—Statistics on strikes are compiled by the Bureau of Labor Statistics and include stoppages, workers involved, and man-days of idleness. Basic data are obtained from the employers and unions involved in strikes. Knowledge of strikes comes from a variety of sources, including newspapers, State employment services, and State and Federal mediation services. The Bureau prepares annual reports published in the *Monthly Labor Review* and, later, in bulletin form, giving total figures for each month of the year and analyses of strikes by industry, State, city, causes, and other classifications.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

Fig. XIII. TRENDS IN THE LABOR FORCE: 1955 to 1968  
 [See table 310]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census; thereafter, Dept. of Labor, Bureau of Labor Statistics.

## Employment Status

215

## No. 310. EMPLOYMENT STATUS OF THE NONINSTITUTIONAL POPULATION, BY SEX AND COLOR: 1947 TO 1968

[In thousands of persons 16 years old and over, except as indicated. Prior to 1960, excludes Alaska and Hawaii. Annual figures are averages of monthly figures. Data for 1950 and 1955 adjusted to reflect changes in definition of employment and unemployment adopted in January 1957. Beginning 1955, labor force and employment figures not strictly comparable with previous years as a result of introduction into estimating procedure of 1950 Census data through March 1962 and of 1960 Census data thereafter. See *Historical Statistics, Colonial Times to 1967*, series D 1-14 and D 20, for similar but not exactly comparable data]

YEAR OR MONTH, SEX, AND COLOR	Total noninsti- tutional popula- tion	LABOR FORCE					NOT IN LABOR FORCE				
		Total, includ- ing Armed Forces	Civilian labor force				Total	Keep- ing house <sup>1</sup>	In school <sup>1</sup>		
			Employed		Unemployed						
			Total	Agricul- tural	Non- agri- cultural	Num- ber	Per- cent				
<b>TOTAL</b>											
1947-----	103,418	60,941	50,350	57,030	7,891	49,148	2,311	3.9	42,477		
1950-----	106,645	63,858	62,208	58,920	7,160	51,760	3,288	5.3	42,787		
1955-----	112,732	68,072	65,023	62,171	6,449	55,724	2,882	4.4	44,660		
1960-----	119,750	72,142	69,028	65,778	5,458	60,318	3,882	5.5	47,617		
1963-----	125,154	74,571	71,833	67,762	4,687	63,076	4,070	5.7	50,583		
1964-----	127,224	75,830	73,091	69,305	4,523	64,782	3,786	5.2	51,394		
1965-----	129,236	77,178	74,455	71,088	4,361	66,726	3,366	4.5	52,058		
1966-----	131,180	78,893	76,770	72,895	3,979	68,915	2,875	3.8	52,288		
1967-----	133,319	80,793	77,347	74,372	3,844	70,527	2,975	3.8	52,527		
Mar.	132,627	78,949	75,513	72,560	3,410	69,149	2,954	3.9	53,678		
1968, Mar.	134,904	80,938	77,447	74,517	3,537	70,980	2,929	3.8	53,965		
<b>MALE</b>											
1947-----	50,968	44,258	42,086	40,994	6,643	34,351	1,692	4.0	6,710		
1950-----	52,352	45,446	43,819	41,550	6,001	35,578	2,239	5.1	6,906		
1955-----	55,122	47,488	44,475	42,621	5,265	37,357	1,854	4.2	7,634		
1960-----	58,144	48,870	46,388	43,904	4,472	39,431	2,486	5.4	9,274		
1963-----	60,627	49,835	47,129	44,657	3,809	40,849	2,472	5.2	10,792		
1964-----	61,556	50,387	47,679	45,474	3,691	41,782	2,205	4.6	11,169		
1965-----	62,473	50,946	48,255	46,340	3,547	42,702	1,914	4.0	11,527		
1966-----	63,351	51,560	48,471	46,919	3,243	43,675	1,551	3.2	11,702		
1967-----	64,316	52,398	48,987	47,479	3,164	44,315	1,508	3.1	11,619		
Mar.	63,995	51,368	47,967	46,333	2,932	43,401	1,634	3.4	12,627		
1968, Mar.	65,044	52,123	48,669	47,050	3,015	44,034	1,619	3.3	12,920		
<b>Nonwhite:<sup>1</sup></b>											
1955-----	25,326	(NA)	4,358	4,001	710	3,290	357	8.2	968		
1960-----	25,952	(NA)	4,728	4,220	657	3,563	508	10.7	1,223		
1963-----	26,335	(NA)	4,802	4,293	527	3,766	509	10.6	1,533		
1964-----	26,439	(NA)	4,871	4,429	497	3,932	443	9.1	1,568		
1965-----	26,576	(NA)	4,945	4,568	493	4,075	377	7.6	1,631		
1966-----	26,686	(NA)	4,983	4,655	392	4,264	328	6.6	1,703		
1967-----	26,606	5,253	4,945	4,646	361	4,285	299	6.0	1,358		
Mar.	26,249	(NA)	4,803	4,461	363	4,098	342	7.1	1,446		
1968,	6,711	5,231	4,925	4,615	362	4,253	310	6.3	1,480		
<b>FEMALE</b>											
1947-----	52,450	16,683	16,664	16,045	1,248	14,797	619	3.7	35,767		
1950-----	54,293	18,412	18,389	17,340	1,159	16,182	1,049	5.7	35,881		
1955-----	57,610	20,584	20,548	19,550	1,184	18,367	998	4.9	37,026		
1960-----	61,615	23,272	23,240	21,874	986	20,887	1,366	5.9	38,343		
1963-----	64,527	24,736	24,704	23,105	878	22,227	1,598	6.5	39,791		
1964-----	65,668	25,442	25,412	23,831	832	23,000	1,581	6.2	40,225		
1965-----	66,763	26,282	26,200	24,748	814	23,934	1,452	5.5	40,531		
1966-----	67,829	27,333	27,299	25,076	736	25,240	1,324	4.8	40,496		
1967-----	69,003	28,395	28,360	26,883	680	26,212	1,468	5.2	40,608		
Mar.	68,632	27,581	27,546	26,226	478	26,748	1,319	4.8	41,051		
1968, Mar.	69,860	28,815	28,778	27,468	522	26,046	1,310	4.6	41,045		
<b>Nonwhite:<sup>1</sup></b>											
1955-----	26,069	(NA)	2,697	2,495	310	2,185	202	7.5	3,372		
1960-----	26,726	(NA)	3,116	2,821	277	2,644	295	9.5	3,610		
1963-----	27,271	(NA)	3,318	2,941	221	2,720	376	11.3	3,954		
1964-----	27,437	(NA)	3,421	3,052	190	2,861	369	10.8	4,016		
1965-----	27,609	(NA)	3,503	3,179	181	2,998	324	9.3	4,106		
1966-----	27,784	(NA)	3,634	3,313	136	3,177	321	8.8	4,150		
1967-----	27,480	3,704	3,366	104	3,262	338	9.1	3,773	2,967		
Mar.	27,417	(NA)	3,556	3,248	57	3,191	308	8.7	3,860		
1968, Mar.	7,616	3,693	3,690	3,385	56	3,329	305	8.3	3,922		
									591		
									293		

NA Not available. <sup>1</sup> 1947-1966, persons 14 years old and over. <sup>2</sup> Civilian noninstitutional population.Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*.

**No. 311. LABOR FORCE—TOTAL, AND PARTICIPATION RATES, BY COLOR, SEX, AND AGE: 1960, 1965, AND PROJECTIONS, 1970 TO 1980**

[In thousands of persons 16 years old and over, except percent. Annual averages. Rate is based on total population as of July 1 and represents the proportion of each age group in the labor force (employed, unemployed, or in the Armed Forces). Projections based on trends in labor force participation rates between 1947 and 1964]

COLOR, SEX, AND AGE	TOTAL LABOR FORCE					PARTICIPATION RATES (percent)				
	1960 <sup>1</sup>	1965	1970	1975	1980	1960 <sup>1</sup>	1965	1970	1975	1980
Total.....	72,104	77,177	84,617	92,183	99,942	59.2	58.8	59.7	60.0	60.4
White.....	64,210	68,627	75,055	81,436	87,872	58.8	58.5	59.4	59.7	60.1
Nonwhite.....	7,894	8,551	9,580	10,746	12,072	63.0	62.1	62.4	62.4	62.4
Male.....	48,933	50,946	54,960	59,356	64,061	82.4	80.1	80.3	80.1	80.3
White.....	44,119	45,862	49,263	52,946	56,822	82.6	80.4	80.5	80.3	80.4
Nonwhite.....	4,814	5,084	5,695	6,409	7,241	80.1	77.4	78.3	78.5	79.0
16 to 19 years.....	3,162	3,883	4,280	4,664	4,824	58.6	55.7	56.4	56.2	56.7
16 and 17 years.....	1,322	1,577	1,690	1,792	1,796	45.9	44.1	43.3	42.8	42.8
18 and 19 years.....	1,840	2,254	2,590	2,872	3,028	73.1	68.3	70.3	69.8	70.2
20 to 24 years.....	4,939	5,926	7,466	8,331	9,084	88.9	86.2	86.6	86.7	87.2
25 to 34 years.....	10,940	10,653	12,063	14,988	17,590	96.4	96.0	96.2	96.2	96.2
35 to 44 years.....	11,454	11,504	10,930	10,703	12,084	96.4	96.2	96.7	96.7	96.7
45 to 54 years.....	9,568	10,131	10,725	10,810	10,219	94.3	94.3	95.0	95.0	95.0
55 to 64 years.....	6,445	6,768	7,388	7,795	8,184	85.2	83.2	84.3	83.9	83.7
65 years and over.....	2,425	2,131	2,108	2,087	2,096	32.2	26.9	25.1	23.4	21.8
Female.....	23,171	26,232	29,657	32,827	35,881	37.1	38.8	40.5	41.3	41.9
White.....	20,091	22,765	25,792	28,400	31,050	36.0	37.7	39.6	40.4	41.1
Nonwhite.....	3,080	3,467	3,865	4,337	4,831	47.2	48.1	48.0	47.9	47.6
16 to 19 years.....	2,061	2,520	2,908	3,201	3,286	39.1	37.7	39.4	39.6	40.0
16 and 17 years.....	801	954	1,096	1,173	1,165	28.6	27.5	28.9	28.8	28.8
18 and 19 years.....	1,260	1,555	1,812	2,028	2,121	51.0	48.6	50.6	50.6	50.8
20 to 24 years.....	2,558	3,375	4,267	4,865	5,380	46.1	49.7	50.3	51.5	52.6
25 to 34 years.....	4,159	4,336	4,894	6,124	7,347	35.8	38.5	38.6	39.3	40.3
35 to 44 years.....	5,325	5,724	5,555	5,582	6,886	43.1	45.9	47.5	49.0	50.0
45 to 54 years.....	5,150	5,714	6,675	7,024	6,805	49.3	50.5	55.3	57.6	59.5
55 to 64 years.....	2,964	3,587	4,267	4,826	5,337	36.7	40.6	43.8	45.7	47.3
65 years and over.....	954	976	1,091	1,205	1,340	10.5	8.5	9.8	9.8	9.9

<sup>1</sup> Based on revised population estimates; differ from figures in tables 310 and 312.

Source: Dept. of Labor, Bureau of Labor Statistics; consistent with *Projections of the Labor Force, 1970-80; Labor Force Projections, by Color, 1970-80*, and *Special Labor Force Report*, Nos. 49 and 73.

**No. 312. LABOR FORCE—PERCENT DISTRIBUTION, BY SEX AND AGE: 1950 TO 1967**

[Prior to 1960, excludes Alaska and Hawaii. Includes Armed Forces abroad. See headnote, table 310. See also *Historical Statistics, Colonial Times to 1957*, series D 13-25, for similar but not exactly comparable data]

AGE	TOTAL				MALE				FEMALE			
	1950	1955	1960	1967	1950	1955	1960	1967	1950	1955	1960	1967
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Age:												
16 to 19 years.....	7.1	6.7	7.3	8.8	6.2	5.9	6.5	8.0	9.3	8.4	8.9	10.2
20 to 24 years.....	12.4	10.7	10.6	13.0	11.5	10.2	10.4	12.5	14.6	11.9	11.1	14.0
25 to 34 years.....	23.7	23.1	20.9	19.6	24.3	24.1	22.4	21.0	22.3	20.7	17.8	17.1
35 to 44 years.....	22.1	23.0	23.1	21.2	21.9	22.8	23.2	21.5	22.6	23.4	22.8	20.6
45 to 54 years.....	18.0	19.1	20.7	20.2	17.9	18.7	19.7	19.6	18.1	20.2	22.7	21.1
55 to 64 years.....	12.0	12.5	13.0	13.4	12.8	12.9	13.1	13.3	10.0	11.6	12.8	13.6
65 years and over.....	4.8	4.9	4.4	3.8	5.4	5.3	4.7	4.0	3.2	3.8	3.9	3.4

Source: Dept. of Labor, Bureau of Labor Statistics; *Handbook of Labor Statistics, 1957* and *Employment and Earnings and Monthly Report on the Labor Force*.

## Unemployment

217

## No. 313. UNEMPLOYED, PART-TIME EMPLOYED, AND UNEMPLOYMENT INSURANCE—SUMMARY: 1950 TO 1968

[Persons 16 years old and over. Prior to 1960, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series D 46 and D 47, for total unemployed and rate]

SUBJECT	1950	1955	1960	1965	1966	1967		1968, March
						Total	March	
<b>UNEMPLOYED</b>								
<b>Total</b>	1,000	3,288	2,852	3,852	3,366	2,875	2,975	2,954
Color:								
White	1,000	(NA)	2,248	3,063	2,691	2,253	2,338	2,304
Nonwhite	1,000	(NA)	601	787	676	621	638	650
Age and sex:								
16 to 19 years	1,000	513	450	711	874	836	888	648
Percent of total unemployed	15.6	15.8	18.5	26.0	29.1	28.2	21.9	722
White	1,000	(NA)	(NA)	(NA)	(NA)	651	685	496
Nonwhite	1,000	(NA)	(NA)	(NA)	(NA)	185	204	151
Male	1,000	318	274	425	479	432	448	372
Female	1,000	195	176	286	395	404	390	322
20 to 24 years	1,000	561	396	583	557	445	512	498
Percent of total unemployed	17.1	13.9	15.1	16.5	15.5	17.2	16.9	19.5
Male	1,000	377	248	369	311	221	235	241
Female	1,000	184	148	214	246	224	277	287
25 to 44 years	1,000	1,282	1,098	1,423	1,076	865	901	968
Percent of total unemployed	37.5	38.5	36.9	32.0	30.1	30.3	32.8	32.1
Male	1,000	815	681	907	577	457	404	492
Female	1,000	417	417	516	499	408	497	459
45 to 64 years	1,000	846	791	1,009	768	636	640	752
Percent of total unemployed	25.7	27.7	26.2	22.5	22.1	21.5	25.5	20.4
Male	1,000	613	550	686	474	377	382	466
Female	1,000	233	241	323	284	259	278	286
65 years and over	1,000	137	120	121	102	92	86	90
Percent of total unemployed	4.2	4.2	3.1	3.0	3.2	2.9	3.0	3.3
<b>UNEMPLOYMENT RATE (percent):<sup>1</sup></b>								
All workers		5.3	4.4	5.5	4.5	3.8	3.8	3.9
White		4.9	3.9	4.9	4.1	3.3	3.4	3.4
Male		4.7	3.7	4.8	3.8	2.8	2.7	3.0
Female		5.3	4.3	5.3	5.0	4.3	4.6	4.0
Nonwhite		9.0	8.7	10.2	8.1	7.3	7.4	7.1
Male		9.4	8.8	10.7	7.4	6.3	6.0	6.3
Female		8.4	8.4	9.4	9.2	8.6	9.1	8.3
Ratio, nonwhite to white		1.8	2.2	2.1	2.0	2.2	2.2	2.1
Blue-collar workers		(NA)	(NA)	(NA)	(NA)	(NA)	4.4	5.0
White-collar workers		(NA)	(NA)	(NA)	(NA)	(NA)	2.2	1.9
Experienced wage and salary workers		(NA)	(NA)	(NA)	(NA)	(NA)	3.6	3.8
Married men, wife present		(NA)	(NA)	(NA)	(NA)	(NA)	1.8	2.1
White		(NA)	(NA)	(NA)	(NA)	(NA)	1.7	2.0
Nonwhite		(NA)	(NA)	(NA)	(NA)	(NA)	3.2	3.9
Percent without work for—								
4 weeks or less		44.1	46.8	44.6	48.4	53.4	55.0	47.7
5 to 10 weeks		23.0	21.0	21.4	21.0	20.8	22.7	21.0
11 to 14 weeks		9.2	7.6	9.2	8.2	7.2	7.3	12.4
15 to 26 weeks		12.9	12.9	13.0	12.0	10.3	9.1	12.0
Over 27 weeks		10.9	11.8	11.8	10.4	8.4	5.0	7.0
Average duration of unemployment—wks.		(NA)	(NA)	(NA)	(NA)	(NA)	8.8	10.2
<b>PART-TIME EMPLOYED<sup>2</sup></b>								
<b>Total</b>	1,000	(NA)	(NA)	(NA)	(NA)	1,894	2,163	2,212
Agriculture	1,000	(NA)	(NA)	(NA)	(NA)	230	250	234
Nonagriculture	1,000	(NA)	(NA)	(NA)	(NA)	1,664	1,913	1,978
<b>UNEMPLOYMENT INSURANCE<sup>3</sup></b>								
Average weekly insured unemployment: <sup>4</sup>								
Number <sup>5</sup>	1,503	1,254	1,906	1,328	1,061	1,205	1,532	1,390
Percent of covered employment <sup>5</sup>	4.6	3.5	4.8	3.0	2.3	2.5	3.3	2.8
Initial claims (weekly average) <sup>4,6</sup>	236	226	331	232	203	226	239	183
Claimants exhausting benefits: <sup>7</sup>								
Number	1,000	1,853	1,272	1,603	1,086	781	867	76
Percent of first payment beneficiaries	35.6	28.2	23.7	22.6	18.9	19.3	15.8	21.8
Average actual duration of benefits—wks.	13.0	12.4	12.7	12.2	11.2	11.4	(X)	(X)

NA. Not available. X. Not applicable. <sup>1</sup> Percent of civilian labor force in specified group. <sup>2</sup> Persons who work less than 35 hours during survey week for economic reasons, such as slack work, material shortages or repairs, new job started, job terminated, or only part-time work found. Excludes persons with a job but not at work because of vacation, illness, bad weather, or industrial dispute. <sup>3</sup> State programs only; excludes programs for Federal employees and for ex-servicemen; includes unemployment compensation for State and local government employees where covered by State law. <sup>4</sup> Beginning 1965, includes Puerto Rican sugarcane workers' program. <sup>5</sup> Workers reporting completion of at least 1 week of unemployment. <sup>6</sup> Notices filed by workers to indicate they are starting periods of unemployment. Excludes transitional claims. <sup>7</sup> Includes temporary extended benefit exhaustions.

Source: Dept. of Labor, Bureau of Labor Statistics; *Handbook of Labor Statistics 1967, Employment and Earnings*, and *Monthly Report on the Labor Force*, and unpublished data.

No. 314. NONAGRICULTURAL JOB OPENINGS AND PLACEMENTS: 1950 TO 1968  
 [In thousands, except as indicated. Includes Puerto Rico, Guam, and Virgin Islands]

YEAR OR MONTH	NONFARM JOB OPENINGS			Index of help-wanted advertising in newspapers <sup>2</sup> (1957-59 = 100)	
	Registered		Unfilled, average per month		
	Total	Average per month			
1950	7,202	600	174	5,625	
1955	7,702	642	199	6,052	
1960	7,124	504	186	5,818	
1965	8,690	724	305	6,473	
1966				111	
1967	9,122	760	421	6,493	
March	8,092	674	359	5,817	
1968, March	668	(NA)	346	460	
	640	(NA)	350	488	
				184	
				20 <sup>1</sup>	

<sup>1</sup> NA. Not available.<sup>2</sup> Represents entry of a worker on a job as a direct result of service activities of public employment offices.

Source: Dept. of Commerce, Office of Business Economics. Covers advertisements published in classified sections of leading newspapers; excludes those in other sections. Index based on number of advertisements rather than number of jobs advertised.

Source: Dept. of Labor, Bureau of Employment Security; unpublished data, except as indicated.

No. 315. PERSONS WITH A JOB BUT NOT AT WORK: 1950 TO 1968

[In thousands of persons 14 years old and over, except as indicated. Prior to 1960, excludes Alaska and Hawaii  
 See headnote, table 310]

YEAR OR MONTH	ALL INDUSTRIES		Nonagricultural industries	REASON FOR NOT WORKING, ALL INDUSTRIES				
	Number	Percent of employed		Agri-culture	Bad weather	Industrial dispute	Vacation	All others
1950	2,440	4.1	220	2,219	151	85	1,137	718
1955	2,682	4.3	184	2,497	103	61	1,268	835
1960	3,231	4.8	190	3,042	168	40	1,576	942
1965	3,525	4.9	157	3,368	79	48	1,738	1,030
1966 <sup>1</sup>	3,595	4.9	131	3,463	91	66	1,753	1,039
1967 <sup>1</sup>	3,831	5.2	130	3,701	92	107	1,974	1,102
March <sup>1</sup>	2,513	3.5	137	2,376	144	45	587	557
1968, March <sup>1</sup>	2,666	3.6	141	2,625	192	99	629	1,211
								535

<sup>1</sup> Persons 16 years old and over.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*, and unpublished data.

No. 316. PERSONS WITH TWO OR MORE JOBS: 1960, 1965, AND 1966  
 [In thousands of persons 14 years old and over, except percent. 1960 as of December; thereafter, as of May]

YEAR AND INDUSTRY AND CLASS OF WORKER OF PRIMARY JOB	PERSONS WITH 2 OR MORE JOBS		INDUSTRY AND CLASS OF WORKER OF SECONDARY JOB					
	Total	Rate of multiple job-holding <sup>1</sup>	Agriculture			Nonagricultural industries		
			Total	Wage and salary	Self-employed	Total	Wage and salary	Self-employed
1960								
Agriculture	3,012	4.6	587	135	452	2,425	2,025	400
Nonagricultural industries	332	6.7	138	98	40	194	193	1
	2,680	4.4	449	37	412	2,231	1,832	399
1965								
Agriculture	3,756	5.2	786	167	619	2,970	2,389	581
Nonagricultural industries	416	8.1	137	92	45	279	275	4
	3,340	5.0	649	75	574	2,691	2,114	577
1966								
Agriculture	3,636	4.9	721	139	582	2,915	2,335	580
Wage and salary workers	335	7.8	120	88	37	215	212	3
Self-employed workers	88	6.6	56	19	37	32	29	3
Unpaid family workers	200	8.9	49	49	-	151	151	-
Nonagricultural industries	47	6.6	15	15	-	32	32	-
Wage and salary workers	3,301	4.8	601	56	545	2,700	2,128	577
Self-employed workers	3,110	5.0	599	54	545	2,611	1,934	577
Unpaid family workers	177	2.8	2	2	-	175	175	-
	14	2.5	-	-	-	14	14	-

<sup>1</sup> Represents zero. <sup>1</sup> Percent of all employed persons in industry—class-of-worker group.

Source: Dept. of Labor, Bureau of Labor Statistics; *Special Labor Force Report*, Nos. 18, 63, and 90.

# Nonagricultural and Agricultural Employment

219

## No. 317. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS: 1940 TO 1968

[In thousands. Prior to 1960, excludes Alaska and Hawaii. Includes all full- and part-time employees who worked during, or received pay for, any part of the pay period reported. Excludes proprietors, self-employed persons, farm workers, unpaid family workers, domestic servants, and personnel of Armed Forces. Data are annual averages adjusted to March 1966 benchmark levels indicated by data from government social insurance programs. See *Historical Statistics, Colonial Times to 1957*, series D 48-56, for related data]

YEAR OR MONTH	Total	Mining	Contract construction	Manufacturing	Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Service and miscellaneous	Government
1940-----	32,376	925	1,294	10,985	3,038	6,750	1,502	3,681	4,202
1945-----	40,394	836	1,132	15,524	3,906	7,314	1,497	4,241	5,944
1950-----	45,222	901	2,333	15,241	4,034	9,386	1,919	5,382	6,026
1955-----	50,675	792	2,802	16,882	4,141	10,535	2,335	6,274	6,914
1960-----	54,234	712	2,885	16,796	4,004	11,391	2,669	7,423	8,353
1961-----	54,042	672	2,816	16,326	3,903	11,337	2,731	7,664	8,504
1962-----	55,596	650	2,902	16,853	3,906	11,566	2,800	8,028	8,890
1963-----	56,702	635	2,963	16,995	3,903	11,778	2,877	8,325	9,225
1964-----	58,332	634	3,050	17,274	3,951	12,160	2,957	8,709	9,596
1965-----	60,832	632	3,186	18,062	4,036	12,716	3,023	9,087	10,091
1966-----	63,982	625	3,292	19,186	4,151	13,211	3,102	9,545	10,871
1967-----	66,063	613	3,204	19,339	4,262	13,672	3,228	10,071	11,616
March-----	64,843	607	2,922	19,263	4,191	13,332	3,157	9,817	11,554
1968, March	66,831	585	3,306	19,345	4,265	13,778	3,037	10,300	12,215

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*.

## No. 318. CIVILIANS EMPLOYED, BY HOURS WORKED: 1950 TO 1967

[In thousands of persons 14 years old and over, except as noted. During the survey week in May. Prior to 1960, excludes Alaska and Hawaii]

YEAR	EMPLOYED IN AGRICULTURE						EMPLOYED IN NONAGRICULTURAL INDUSTRIES						With a job but not at work <sup>1</sup>						
	Total	Hours worked				With a job but not at work <sup>1</sup>	Hours worked				Total	1 to 14		15 to 34		35 or more			
		1 to 14		15 to 34			1 to 14		15 to 34			Total	Percent	Total	Percent	Total	Percent		
		Total	1 to 14	15 to 34	35 or more		Total	1 to 14	15 to 34	35 or more		Total	Percent	Total	Percent	Total	Percent		
1950-----	8,036	292	1,613	5,970	74.3	161	51,445	1,949	5,149	43,033	83.6	1,314		2,440	5,618	45,832	82.5	1,646	
1955-----	6,945	263	1,372	5,176	74.5	134	55,536												
1960-----	5,837	366	1,254	4,129	70.7	89	61,371	3,578	7,203	48,594	79.2	1,997		4,466	7,817	51,505	77.9	2,304	
1964-----	5,007	378	1,080	3,448	68.9	92	66,094												
1965-----	5,128	394	1,162	3,475	67.8	97	67,278	4,403	7,563	53,008	78.8	2,304		68,525	8,290	54,378	79.4	2,303	
1966 <sup>2</sup> -----	4,096	323	888	2,781	67.9	102	68,525												
1967 <sup>2</sup> -----	3,825	286	867	2,577	67.4	95	69,812	3,827	9,046	53,950	77.3	2,390							

<sup>1</sup> Persons who had a job or business, but who did not work at all during entire survey week because of illness, bad weather, vacation, industrial dispute, or various personal reasons.

<sup>2</sup> Thousands of persons 16 years old and over.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*, and unpublished data.

## Labor Force, Employment, and Earnings

No. 319. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS, ANNUAL AVERAGES—  
STATES: 1960, 1965, AND 1967

[In thousands. For coverage, see headnote, table 317. National totals differ from the sum of the State figures because a few States prepare combinations of industries, some States have more recent benchmark levels than others, and methods of computation may vary slightly among the States]

STATE	TOTAL			INDUSTRY, 1967								Gov- ern- ment
	1960	1965	1967	Mining	Contract construction	Manufacturing	Transportation and public utilities	Whole- sale and retail trade	Finance, insurance, and real estate	Service and miscel- laneous		
U.S.	54,234	60,832	66,063	613	3,264	19,339	4,262	13,672	3,228	10,071		11,616
N.E.												
Maine	278	295	317	(1)	14	117	17	60	11	138		60
N. H.	198	217	241	(Z)	12	98	10	44	9	39		29
Vt.	108	122	136	1	7	44	8	25	5	124		22
Mass.	1,910	2,019	2,128	(1)	87	697	108	438	113	1399		286
R.I.	292	317	339	(1)	15	128	15	64	15	151		51
Conn.	915	1,033	1,180	(2)	20	480	49	203	63	154		131
M.A.												
N.Y.	6,182	6,520	6,863	9	258	1,891	488	1,387	527	1,230		1,073
N.J.	2,017	2,256	2,406	3	108	876	166	475	106	344		328
Pa.	3,713	3,915	4,168	42	181	1,558	269	708	171	612		587
E.N.C.												
Ohio	3,147	3,364	3,612	19	153	1,399	209	699	139	486		508
Ind.	1,481	1,631	1,773	7	84	714	97	341	69	192		289
Ill.	3,522	3,864	4,200	25	176	1,393	287	901	214	632		572
Mich.	2,351	2,674	2,842	13	117	1,104	140	547	101	389		461
Wis.	1,192	1,332	1,434	3	64	508	76	300	55	198		230
W.N.C.												
Minn.	960	1,082	1,201	14	62	304	85	284	57	184		211
Iowa	681	755	841	3	42	218	51	200	38	130		159
Mo.	1,346	1,476	1,601	8	73	455	123	353	84	241		264
N.Dak.	126	146	150	2	8	9	12	42	7	27		43
S.Dak.	142	152	162	2	8	15	10	43	7	28		49
Nebr.	381	416	443	2	23	80	37	109	26	73		93
Kans.	559	600	655	12	30	145	52	145	27	92		152
S.A.												
Del.	154	184	196	(1)	13	71	11	39	8	126		28
Md.	896	1,060	1,184	2	80	283	77	263	60	200		3219
D.C.	536	619	664	(1)	21	21	31	87	31	125		348
Va.	1,018	1,219	1,329	14	88	345	92	272	59	186		273
W. Va.	480	477	504	48	25	133	41	89	14	62		92
N.C.	1,195	1,426	1,573	4	91	657	82	283	59	180		217
S.C.	583	686	753	1	48	319	32	124	26	75		128
Ga.	1,051	1,257	1,385	7	75	437	95	290	66	156		250
Fla.	1,321	1,619	1,821	9	128	293	128	453	106	325		349
E. S.C.												
K.Y.	654	759	835	28	48	230	58	170	32	113		156
Tenn.	926	1,107	1,216	7	65	435	61	233	50	156		209
Ala.	776	886	946	8	51	298	53	180	40	125		191
Miss.	404	485	533	5	31	167	28	100	19	62		121
W. S.C.												
Ark.	367	455	498	5	32	153	31	99	19	67		92
La.	790	906	1,014	51	89	174	92	222	45	140		201
Okl.	582	648	707	41	33	116	50	158	34	98		177
Tex.	2,532	2,925	3,270	106	208	664	244	771	164	499		614
Mt.												
Mont.	167	181	190	5	12	22	18	45	7	29		52
Idaho	155	178	188	4	10	35	14	45	7	28		45
Wyo.	97	97	99	9	6	7	10	21	4	14		28
Colo.	515	595	650	18	34	103	47	150	33	110		160
N. Mex.	236	263	273	16	17	18	20	57	11	51		83
Ariz.	334	404	444	13	23	79	26	103	28	73		104
Utah	265	301	328	10	13	50	23	72	13	48		99
Nev.	103	157	165	3	8	7	12	30	6	67		32
Pac.												
Wash.	813	897	1,046	2	55	278	69	228	50	145		219
Oreg.	509	607	651	1	30	164	48	147	32	97		132
Calif.	4,896	5,800	6,363	32	272	1,592	433	1,358	322	1,084		1,270
Alaska	57	71	75	2	6	6	8	11	2	8		32
Hawaii	180	219	240	(1)	17	25	18	56	14	144		66

Z Less than 500. <sup>1</sup> "Mining" combined with "Service and miscellaneous."

<sup>2</sup> "Mining" combined with "Contract construction." <sup>3</sup> Federal employment in the Maryland and Virginia sectors of the Washington, D.C., Standard Metropolitan Statistical Area is included in District of Columbia.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*. Compiled from data supplied by cooperating State agencies.

## No. 320. NONAGRICULTURAL INDUSTRIES—NUMBER OF EMPLOYEES, AND NUMBER, HOURS, AND EARNINGS OF PRODUCTION WORKERS: 1960 AND 1967

[Number in thousands. Covers all full- and part-time employees who worked during, or received pay for, any part of the pay period including the 12th of the month. For mining and manufacturing, data refer to production and related workers; for contract construction industries, to employees engaged in actual construction work; and for other industries, to nonsupervisory employees and working supervisors. See also headnote, table 317. "N.e.c." means not elsewhere classified. See *Historical Statistics, Colonial Times to 1957*, series D 48-56, D 626-641, and D 669-684, for related but not comparable data]

INDUSTRY	All employees, average annual number		PRODUCTION WORKERS					
			Average annual number		Average weekly hours		Average hourly earnings	
	1960	1967	1960	1967	1960	1967	1960	1967
<b>Total</b> .....	<b>54,234</b>	<b>66,063</b>	(X)	(X)	(X)	(X)	(X)	(X)
<b>Private sector</b> <sup>1</sup> .....	<b>45,881</b>	<b>54,448</b>	<b>38,516</b>	<b>45,173</b>	<b>38.6</b>	<b>38.2</b>	<b>\$2.09</b>	<b>\$2.67</b>
<b>Mining</b> .....	<b>712</b>	<b>613</b>	<b>570</b>	<b>470</b>	<b>40.4</b>	<b>42.6</b>	<b>2.61</b>	<b>3.20</b>
Metal mining.....	94	79	77	64	41.8	42.1	2.66	2.25
Coal mining.....	186	142	165	123	35.5	240.5	3.11	3.72
Oil and gas extraction.....	309	271	226	183	42.0	42.7	2.46	3.06
Nonmetallic minerals, except fuels.....	123	121	103	99	43.7	45.3	2.21	2.84
<b>Contract construction</b> .....	<b>2,885</b>	<b>3,264</b>	<b>2,459</b>	<b>2,759</b>	<b>36.7</b>	<b>37.7</b>	<b>3.08</b>	<b>4.09</b>
General building contractors.....	908	1,031	785	882	35.4	36.5	2.93	3.97
Heavy construction contractors.....	586	669	512	576	40.6	41.2	2.84	3.71
Special trade contractors.....	1,391	1,585	1,182	1,302	35.9	37.0	3.29	4.36
<b>Manufacturing</b> .....	<b>16,796</b>	<b>19,339</b>	<b>12,586</b>	<b>14,226</b>	<b>39.7</b>	<b>40.6</b>	<b>2.26</b>	<b>2.83</b>
<b>Durable goods</b> .....	<b>9,459</b>	<b>11,327</b>	<b>7,028</b>	<b>8,282</b>	<b>40.1</b>	<b>41.2</b>	<b>2.43</b>	<b>3.00</b>
Ordnance and accessories.....	220	292	102	150	40.9	41.8	2.65	3.24
Lumber and wood products, except furniture <sup>2</sup> .....	627	593	561	515	39.0	40.3	1.89	2.38
Logging camps and logging contractors.....	91	93	(4) <sup>3</sup>	(4) <sup>3</sup>	(4) <sup>3</sup>	(4) <sup>3</sup>	(4) <sup>3</sup>	(4) <sup>3</sup>
Sawmills and planing mills.....	288	233	262	212	39.3	40.3	1.71	2.26
Millwork, plywood, and related products.....	147	163	124	138	39.8	40.9	2.05	2.54
Wooden containers.....	42	36	38	32	39.5	40.5	1.57	1.99
Furniture and fixtures <sup>3</sup> .....	383	456	319	376	40.0	40.4	1.88	2.32
Household furniture.....	272	320	233	271	39.8	40.0	1.77	2.20
Office furniture.....	28	37	22	29	41.1	42.1	2.21	2.65
Partitions and fixtures.....	40	48	30	36	40.3	41.0	2.40	2.85
Stone, clay, and glass products <sup>3</sup> .....	604	631	492	502	40.6	41.6	2.28	2.83
Flat glass.....	33	31	29	24	40.4	42.0	3.16	3.66
Glass and glassware, pressed or blown.....	107	123	90	107	39.8	40.6	2.31	2.83
Cement, hydraulic.....	43	37	35	28	40.5	41.3	2.54	3.23
Structural clay products.....	76	66	66	54	40.3	40.7	2.04	2.45
Pottery and related products.....	47	42	40	35	38.2	39.6	2.12	2.60
Concrete, gypsum, and plaster products.....	180	176	127	135	42.1	43.7	2.21	2.81
Primary metal industries <sup>3</sup> .....	<b>1,231</b>	<b>1,301</b>	<b>994</b>	<b>1,043</b>	<b>39.0</b>	<b>41.0</b>	<b>2.81</b>	<b>3.34</b>
Blast furnace and basic steel products.....	651	681	528	506	38.2	40.2	3.04	3.57
Iron and steel foundries.....	205	225	173	190	38.8	41.6	2.49	3.07
Nonferrous metals.....	70	78	54	57	41.1	42.1	2.63	3.19
Nonferrous rolling and drawing.....	179	208	136	158	40.7	42.6	2.58	3.14
Nonferrous foundries.....	66	90	55	75	39.8	40.7	2.44	2.95
Fabricated metal products <sup>3</sup> .....	<b>1,135</b>	<b>1,355</b>	<b>874</b>	<b>1,047</b>	<b>40.5</b>	<b>41.5</b>	<b>2.43</b>	<b>2.97</b>
Metal cans.....	62	66	54	57	41.4	43.4	2.77	3.36
Cutlery, hand tools, and hardware.....	135	160	106	127	40.1	40.9	2.31	2.87
Plumbing and heating, except electric.....	78	78	58	58	38.9	40.1	2.34	2.82
Fabricated structural metal products.....	340	400	242	288	40.6	41.5	2.45	2.97
Screw machine products, bolts, etc.....	87	113	69	90	40.5	43.2	2.35	2.96
Metal stampings.....	195	233	159	188	41.6	41.7	2.60	3.19
Metal services, n.e.c. ....	64	86	54	72	40.2	40.7	2.15	2.66
Machinery, except electrical <sup>3</sup> .....	<b>1,479</b>	<b>1,971</b>	<b>1,036</b>	<b>1,371</b>	<b>41.0</b>	<b>42.5</b>	<b>2.55</b>	<b>3.18</b>
Engines and turbines.....	86	105	50	72	39.6	41.6	2.77	3.46
Farm machinery.....	112	147	78	108	40.1	40.6	2.47	3.17
Construction and related machinery.....	221	274	146	183	40.1	41.7	2.56	3.17
Metalworking machinery.....	261	347	196	262	42.8	44.8	2.74	3.45
Special industry machinery.....	168	204	118	139	41.9	42.6	2.38	3.01
General industrial machinery.....	227	293	157	194	40.2	42.3	2.53	3.16
Office and computing machines.....	147	238	96	138	40.7	41.9	2.61	3.13
Service industry machines.....	100	132	70	93	40.1	40.9	2.33	2.90
Electrical equipment and supplies <sup>3</sup> .....	<b>1,467</b>	<b>1,915</b>	<b>996</b>	<b>1,294</b>	<b>39.8</b>	<b>40.2</b>	<b>2.28</b>	<b>2.78</b>
Electric test and distributing equipment.....	164	199	109	137	40.4	41.5	2.43	2.92
Electrical industrial apparatus.....	181	220	124	155	40.1	40.9	2.37	2.89
Household appliances.....	155	179	119	141	39.6	40.3	2.43	2.99
Electric lighting and wiring equipment.....	138	193	107	148	39.4	39.8	2.15	2.61

See footnotes at end of table.

## No. 320. NONAGRICULTURAL INDUSTRIES—NUMBER OF EMPLOYEES, AND NUMBER, HOURS, AND EARNINGS OF PRODUCTION WORKERS: 1960 AND 1967—Con.

[Number in thousands]

INDUSTRY	All employees, average annual number		PRODUCTION WORKER					
			Average annual number		Average weekly hours		Average hourly earnings	
	1960	1967	1960	1967	1960	1967	1960	1967
<b>Manufacturing—Continued</b>								
<b>Durable goods—Continued</b>								
Electrical equipment and supplies <sup>1</sup> —Con.								
Radio and TV receiving equipment	107	149	79	114	38.8	38.7	\$2.06	\$2.41
Communication equipment	382	501	207	249	40.4	41.1	2.44	3.07
Electronic components and accessories	234	361	170	262	39.5	39.2	1.93	2.40
Transportation equipment <sup>2</sup>	1,569	1,927	1,107	1,357	40.7	41.4	2.74	3.44
Motor vehicles and equipment	724	809	583	622	41.0	40.8	2.89	3.55
Aircraft and parts	628	823	370	495	40.9	42.6	2.70	3.44
Ship and boatbuilding and repairing	141	171	117	140	39.3	40.5	2.64	3.28
Railroad equipment	43	56	32	44	38.7	40.0	2.77	3.42
Instruments and related products	354	455	233	286	40.4	41.2	2.31	2.84
Engineering and scientific instruments	76	87	43	45	41.4	43.1	2.68	3.18
Mechanical measuring and control devices	93	108	62	70	40.0	40.5	2.30	2.81
Optical and ophthalmic goods	41	51	31	36	40.1	40.8	2.08	2.62
Medical instruments and supplies	48	65	33	45	40.0	40.2	2.00	2.47
Photographic equipment and supplies	69	103	41	57	41.2	42.5	2.56	3.29
Watches, clocks, and watchcases	28	41	22	34	39.0	40.0	1.97	2.33
Miscellaneous manufacturing industries <sup>3</sup>	300	431	314	341	39.3	39.4	1.89	2.35
Jewelry, silverware, and plated ware	44	51	34	39	40.2	40.5	2.00	2.63
Toys and sporting goods	100	116	84	96	38.7	39.1	1.76	2.12
Pens, pencils, office and art supplies	30	35	23	25	39.3	39.6	1.83	2.28
Costume jewelry and notions	60	58	49	48	38.9	38.9	1.70	2.16
<b>Nondurable goods</b>								
Food and kindred products <sup>2</sup>	7,336	8,012	5,559	5,944	39.2	39.7	2.05	2.57
Meat products	1,730	1,789	1,212	1,187	40.8	40.9	2.11	2.64
Dairy products	323	329	260	364	40.7	41.3	2.32	2.80
Canned, cured, and frozen foods	316	272	169	125	42.3	42.3	2.13	2.08
Grain mill products	246	276	210	232	38.6	38.4	1.78	2.21
Bakery products	131	129	92	91	44.3	44.9	2.12	2.75
Sugar	301	291	173	170	40.0	40.2	2.10	2.67
Confectionery and related products	36	34	30	27	43.1	40.9	2.23	2.91
Beverages	78	79	62	65	39.4	40.1	1.76	2.29
Tobacco manufactures <sup>2</sup>	217	234	118	121	40.3	40.9	2.40	3.04
Cigarettes	94	86	83	74	38.2	38.5	1.70	2.26
Cigars	38	41	33	34	38.6	38.6	2.08	2.77
Textile mill products <sup>2</sup>	28	22	26	20	37.4	37.4	1.44	1.83
Weaving mills, cotton	924	952	835	844	39.5	40.9	1.61	2.06
Weaving mills, synthetic	254	237	238	217	40.1	41.9	1.56	2.06
Weaving and finishing mills, wool	84	95	77	86	41.4	41.8	1.65	2.08
Narrow fabric mills	56	45	49	39	40.6	42.3	1.72	2.15
Knitting mills	28	32	24	28	39.8	40.6	1.66	2.02
Textile finishing, except wool	215	228	195	203	37.7	38.3	1.51	1.96
Floor covering mills	77	80	67	68	40.3	42.5	1.78	2.23
Yarn and thread mills	38	45	32	36	39.9	42.5	1.76	2.10
Apparel and other textile products <sup>2</sup>	103	114	95	105	38.7	40.4	1.50	1.91
Men's and boys' suits and coats	1,233	1,391	1,098	1,232	35.4	36.0	1.59	2.03
Men's and boys' furnishings	120	121	107	107	36.9	37.4	1.85	2.37
Women's and misses' outerwear	304	366	276	330	36.5	36.7	1.33	1.74
Women's and children's undergarments	371	427	335	380	33.2	34.1	1.77	2.21
Hats, caps, and millinery	118	123	104	108	35.8	36.4	1.45	1.83
Children's outerwear	35	25	31	22	35.2	35.9	1.72	2.04
Fur goods and miscellaneous apparel	77	78	68	70	35.3	35.3	1.46	1.87
Paper and allied products	601	684	480	531	42.1	42.8	2.26	2.87
Paper and pulp mills	223	219	180	172	43.4	44.3	2.43	3.16
Paperboard mills	69	74	56	58	43.1	44.7	2.44	3.19
Misc. converted paper products	132	179	102	132	40.8	41.3	2.04	2.59
Paperboard containers and boxes	177	212	141	169	41.1	41.7	2.10	2.65
Printing and publishing <sup>2</sup>	911	1,064	589	671	38.4	38.4	2.68	3.28
Newspapers	325	363	168	181	36.7	36.2	2.88	3.58
Periodicals	70	75	30	26	39.7	39.7	2.75	3.41
Books	70	96	42	57	40.6	40.4	2.36	2.82
Commercial printing	291	337	231	264	39.2	39.2	2.65	3.30
Blankbooks and bookbinding	47	57	38	47	38.1	38.5	2.07	2.63

See footnotes at end of table.

# Nonagricultural Employment, By Industry

223

No. 320. NONAGRICULTURAL INDUSTRIES—NUMBER OF EMPLOYEES, AND NUMBER, HOURS, AND EARNINGS OF PRODUCTION WORKERS: 1960 AND 1967—Con.

[Number in thousands]

INDUSTRY	All employees, average annual number		PRODUCTION WORKERS					
			Average annual number		Average weekly hours		Average hourly earnings	
	1960	1967	1960	1967	1960	1967	1960	1967
<b>Manufacturing—Continued</b>								
<b>Nondurable goods—Continued</b>								
Chemicals and allied products <sup>a</sup> .....	828	991	510	586	41.3	41.6	\$2.50	\$3.10
Industrial chemicals.....	284	309	168	172	41.6	41.9	2.82	3.44
Plastics materials and synthetics.....	155	204	105	133	41.5	41.9	2.51	3.07
Drugs.....	109	135	60	70	40.3	40.6	2.25	2.89
Soap, cleaners, and toilet goods.....	91	113	55	69	40.6	40.8	2.35	3.04
Paints and allied products.....	63	69	37	38	40.7	41.1	2.34	2.93
Agricultural chemicals.....	46	56	32	36	42.9	43.0	1.93	2.54
Petroleum and coal products.....	212	189	138	119	41.1	42.7	2.89	3.58
Petroleum refining.....	177	153	113	93	40.8	42.2	3.02	3.77
Other petroleum and coal products.....	35	37	25	28	42.6	44.2	2.32	2.93
Rubber and plastics products, n.e.c. <sup>b</sup> .....	379	514	293	395	39.9	41.4	2.32	2.75
Tires and inner tubes.....	105	102	77	70	39.4	44.6	2.96	3.78
Leather and leather products <sup>c</sup> .....	363	352	321	304	36.9	38.2	1.64	2.07
Leather tanning and finishing.....	34	31	30	27	39.3	40.4	2.08	2.63
Footwear, except rubber.....	243	229	216	201	36.5	38.0	1.59	2.01
Handbags and personal leather goods.....	36	38	31	33	37.4	37.2	1.63	1.97
<b>Transportation and public utilities</b>								
Railroad transportation.....	4,004	4,262	(4)	(4)	(4)	(4)	(4)	(4)
Class I railroads <sup>d</sup> .....	885	693	(4)	(4)	(4)	(4)	(4)	(4)
Class II railroads.....	731	603	(4)	(4)	41.7	43.3	2.61	3.22
Local and interurban passenger transit.....	234	273	(4)	(4)	(4)	(4)	(4)	(4)
Trucking and warehousing.....	856	1,039	786	934	41.5	41.9	2.51	3.31
Transportation by air.....	191	293	(4)	(4)	(4)	(4)	(4)	(4)
Pipeline transportation.....	23	19	20	15	40.3	41.6	3.09	3.85
Other transportation and services.....	310	350	(4)	(4)	(4)	(4)	(4)	(4)
Communication.....	840	966	688	762	39.6	39.5	2.36	3.02
Telephone communication.....	709	808	582	642	39.6	39.3	2.28	2.88
Telegraph communication.....	38	34	28	23	42.2	42.9	2.37	3.09
Radio and television broadcasting.....	92	117	78	94	38.7	39.7	3.13	3.93
Electric, gas, and sanitary services.....	615	639	545	552	41.0	41.4	2.65	3.44
Electric companies and systems.....	253	262	219	223	41.3	41.5	2.66	3.50
Gas companies and systems.....	155	153	139	131	40.6	41.0	2.47	3.21
Combination companies and systems.....	175	180	159	158	41.0	41.8	2.86	3.60
Water, steam, and sanitary systems.....	33	44	29	39	41.4	40.7	2.17	2.82
<b>Wholesale and retail trade</b>								
Wholesale trade.....	11,391	13,672	8,766	12,175	39.1	36.6	1.81	2.25
Retail trade <sup>e</sup> .....	3,004	3,556	2,605	2,996	40.5	40.4	2.24	2.89
Retail general merchandise stores.....	8,388	10,116	8,161	9,179	38.5	35.3	1.62	2.01
Food stores.....	1,568	2,036	1,452	1,875	34.8	32.8	1.41	1.95
Apparel and accessory stores.....	1,356	1,582	1,273	1,469	36.3	33.4	1.68	2.23
Furniture and home furnishings stores.....	619	689	566	620	34.8	32.6	1.46	1.90
Eating and drinking places.....	400	432	361	380	41.2	38.5	1.82	2.42
1,654	2,159	(4)	2,018	(4)	33.4	(4)	1.49	(4)
Finance, insurance, and real estate.....	2,669	3,228	(4)	2,567	(10)	37.0	(4)	10
Banking.....	673	862	574	718	37.1	37.1	1.81	2.32
Credit agencies other than banks.....	261	344	(4)	273	(4)	37.5	(4)	2.39
Security, commodity brokers, and services.....	114	155	107	135	(4)	37.8	(4)	3.95
Insurance carriers.....	832	952	757	669	(4)	37.1	(4)	2.77
Insurance agents, brokers, and services.....	196	250	(4)	(4)	(4)	(4)	(4)	(4)
Real estate.....	517	582	(4)	(4)	(4)	(4)	(4)	(4)
Other finance, insurance, and real estate.....	76	82	(4)	(4)	(4)	(4)	(4)	(4)
Services <sup>f</sup> .....	7,423	10,071	(4)	(4)	(4)	(4)	(4)	(4)
Hotels and lodging places.....	565	696	(4)	(4)	(4)	(4)	(4)	(4)
Personal services.....	894	1,024	(4)	(4)	(4)	(4)	(4)	(4)
Misc. business services.....	757	1,325	(4)	(4)	(4)	(4)	(4)	(4)
Motion pictures.....	190	187	(4)	(4)	(4)	(4)	(4)	(4)
Medical and other health services.....	1,548	2,438	(4)	(4)	(4)	(4)	(4)	(4)
Government.....	8,353	11,616	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Federal Government.....	2,270	2,719	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
State and local government.....	6,083	8,897	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA. Not available. X. Not applicable.

<sup>a</sup> Includes industries not shown separately.

<sup>b</sup> Relates to railroads with operating revenues of \$5,000,000 or more, beginning January 1966.

<sup>c</sup> 6-month average.

<sup>d</sup> Excludes eating and drinking places.

<sup>e</sup> Excludes eating and drinking places.

<sup>f</sup> Excludes government.

<sup>1</sup> Excludes government.

<sup>2</sup> 11-month average.

<sup>3</sup> Included in "Private sector", not available separately.

<sup>4</sup> Inclued in "Private sector", not available separately.

<sup>5</sup> Money payments only; excludes tips.

<sup>6</sup> Data for nonoffice salesmen excluded from nonsupervisory count for all series in this division.

## No. 321. MARITAL STATUS OF WOMEN IN THE CIVILIAN LABOR FORCE: 1940 TO 1967

[Persons 14 years old and over, except as indicated. As of March, except as indicated. Prior to 1960, excludes Alaska and Hawaii. Includes institutional population. Figures for 1940 based on complete census revised for comparability with intercensal series. Data for 1944-1967 based on Current Population Survey; see text, p. I. Beginning 1954, figures not strictly comparable with previous years as a result of introduction into estimating procedure of 1950 Census data through 1961, and of 1960 Census data beginning March 1962. See table 35. See also *Historical Statistics, Colonial Times to 1957*, series D 33-35]

YEAR	FEMALE LABOR FORCE (1,000)				PERCENT DISTRIBUTION OF FEMALE LABOR FORCE			FEMALE LABOR FORCE AS PERCENT OF FEMALE POPULATION, 14 AND OVER					
	Total	Married		Widowed or divorced	Single	Married	Widowed or divorced	Total	Single	Married	Widowed or divorced		
		Total	Single							Total	Single		
1940	18,840	6,710	5,040	14,200	2,090	48.5	36.4	15.1	27.4	48.1	16.7	14.7	32.0
1944 <sup>1</sup>	18,449	7,542	8,433	6,226	2,474	40.9	45.7	13.4	35.0	58.6	25.6	21.7	35.7
1947 <sup>1</sup>	16,323	6,181	7,545	6,876	2,597	37.9	46.2	15.9	29.8	51.2	21.4	20.0	34.6
1950	17,795	5,621	9,273	8,550	2,901	31.6	52.1	16.3	31.4	50.5	24.8	23.8	36.0
1954 <sup>1</sup>	19,726	5,412	11,209	9,923	3,105	27.4	56.8	15.7	33.1	49.0	28.1	26.6	36.0
1955 <sup>1</sup>	20,154	5,087	11,839	10,423	3,227	25.2	58.7	16.0	33.5	46.4	29.4	27.7	36.0
1956	20,842	5,167	12,278	11,126	3,397	24.8	58.9	16.3	34.2	46.4	30.2	29.0	36.9
1957	21,524	5,378	12,696	11,529	3,450	25.0	59.0	16.0	34.8	46.8	30.8	29.6	37.6
1958	22,000	5,365	13,032	11,826	3,604	24.4	59.2	16.4	35.0	45.4	31.4	30.2	37.9
1959	22,376	5,162	13,582	12,205	3,628	23.1	60.7	16.2	35.2	43.4	32.3	30.9	38.0
1960	22,516	5,401	13,485	12,253	3,629	24.0	59.9	16.1	34.8	44.1	31.7	30.5	37.1
1961	24,199	5,668	14,612	13,266	3,924	23.4	60.4	16.2	36.8	44.4	34.0	32.7	39.0
1962	23,978	5,481	14,770	13,485	3,727	22.9	61.6	15.5	35.7	41.7	33.7	32.7	36.6
1963	24,675	5,614	15,362	14,061	3,699	22.8	62.3	15.0	36.1	41.0	34.6	33.7	35.8
1964	25,399	5,781	15,790	14,461	3,828	22.8	62.2	15.1	36.5	40.9	35.3	34.4	36.1
1965	25,952	5,912	16,154	14,708	3,886	22.8	62.2	15.0	36.7	40.5	35.7	34.7	35.7
1966	26,820	6,106	16,876	15,178	4,038	22.7	62.2	15.1	37.3	40.8	36.5	35.4	36.4
1967 <sup>2</sup>	27,955	6,323	17,486	15,908	4,144	22.6	62.6	14.8	38.2	41.3	37.9	36.8	35.9
1967 <sup>2</sup>	27,545	5,915	17,486	15,908	4,144	21.5	63.5	15.0	39.7	50.7	37.9	36.8	35.9

<sup>1</sup> As of April. <sup>2</sup> 16 years old and over.

Source: 1940-1958, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1959, Dept. of Labor, Bureau of Labor Statistics; *Special Labor Force Report*.

## No. 322. CIVILIAN FEMALE POPULATION—TOTAL AND LABOR FORCE, BY MARITAL STATUS AND AGE: 1967

[In thousands of persons 16 years old and over. As of March. Includes institutional population. See headnote, table 310]

MARITAL STATUS AND AGE	Population	LABOR FORCE		MARITAL STATUS AND AGE	Population	LABOR FORCE	
		Number	Percent of population			Number	Percent of population
Total	69,410	27,545	39.7	Married, husband present	43,225	15,908	36.8
16 to 19 years	6,962	2,547	36.6	16 to 19 years	842	265	31.5
20 to 24 years	7,330	3,827	52.3	20 to 24 years	4,329	1,778	41.1
25 to 34 years	11,513	4,746	41.2	25 to 34 years	9,455	3,305	35.0
35 to 44 years	12,256	5,820	47.5	35 to 44 years	10,141	4,331	42.7
45 to 64 years	20,721	9,623	46.4	45 to 64 years	14,826	5,989	40.4
65 years and over	10,619	972	9.2	65 years and over	3,632	240	6.6
Median age <sup>1</sup> —years	42.8	40.0	(X)	Median age <sup>1</sup> —years	42.0	41.3	(X)
Single	11,664	5,915	50.7	Other marital status	14,521	5,722	39.4
16 to 19 years	5,913	2,197	37.2	16 to 19 years	207	85	41.1
20 to 24 years	2,402	1,689	70.3	20 to 24 years	608	370	60.9
25 to 34 years	852	689	80.9	25 to 34 years	1,206	752	62.4
35 to 44 years	580	432	74.5	35 to 44 years	1,535	1,057	68.9
45 to 64 years	1,142	774	67.8	45 to 64 years	4,753	2,860	60.2
65 years and over	775	134	17.3	65 years and over	6,212	598	9.6
Median age <sup>1</sup> —years	19.9	22.3	(X)	Median age <sup>1</sup> —years	61.3	49.7	(X)

X Not applicable. <sup>1</sup> For definition of median, see headnote, table 8.

Source: Dept. of Labor, Bureau of Labor Statistics; *Special Labor Force Report*, No. 94.

# Women Employees—Employed Persons

225

No. 323. WOMEN EMPLOYEES IN SELECTED INDUSTRIES: 1964, 1965, AND 1967  
 [In thousands, except percent. Annual averages]

INDUSTRY GROUP	1964			1965			1967		
	Number	Percent of—		Number	Percent of—		Number	Percent of—	
		Industry group	Total employment		Industry group	Total employment		Industry group	Total employment
<b>Total</b>	<b>19,672</b>	<b>34</b>	<b>34</b>	<b>20,682</b>	<b>34</b>	<b>34</b>	<b>23,356</b>	<b>35</b>	<b>35</b>
Manufacturing	4,537	26	8	4,768	26	8	5,319	28	8
Durable goods	1,756	18	3	1,889	18	3	2,240	20	3
Nondurable goods	2,782	37	5	2,879	38	5	3,072	38	5
Mining	34	5	(Z)	34	5	(Z)	35	6	(Z)
Contract construction	146	5	(Z)	146	5	(Z)	154	5	(Z)
Transportation and public utilities	723	18	1	748	19	1	833	20	1
Wholesale trade	703	22	1	729	22	1	798	22	1
Retail trade	3,915	44	7	4,152	44	7	4,510	45	7
Finance, insurance, and real estate	1,470	50	1	1,502	50	.2	1,632	51	2
Services	4,425	51	8	4,622	51	8	5,261	52	8
Government	3,719	39	6	3,981	39	7	4,815	41	7

Z Less than 0.5 percent.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*.

## No. 324. EMPLOYED PERSONS, BY MAJOR OCCUPATION GROUP AND SEX: 1950 TO 1968

[In thousands of persons 14 years old and over, except as noted. Prior to 1960, excludes Alaska and Hawaii. Annual averages except as indicated. Beginning 1965, not strictly comparable with previous years. See *Historical Statistics, Colonial Times to 1957*, series D 72-572, for related but not comparable data]

MAJOR OCCUPATION GROUP AND SEX	1950 <sup>1</sup>	1955 <sup>1</sup>	1960	1965	1967 <sup>2</sup>		1968, Mar. <sup>3</sup>
					Average	Mar.	
<b>Total</b>	<b>59,648</b>	<b>62,997</b>	<b>66,681</b>	<b>72,179</b>	<b>74,372</b>	<b>72,560</b>	<b>74,517</b>
White-collar workers	22,373	24,585	28,726	32,104	34,232	33,719	35,391
Percent of total	37.5	39.0	43.1	44.5	46.0	46.5	47.5
Professional and technical workers	4,490	5,792	7,475	8,883	9,879	9,942	10,461
Managers, officials, and proprietors	6,429	6,450	7,067	7,340	7,495	7,292	7,734
Clerical workers	7,682	8,367	9,783	11,166	12,333	12,031	12,641
Salesworkers	3,822	3,976	4,401	4,715	4,525	4,454	4,556
Blue-collar workers	23,336	24,771	24,211	26,466	27,261	26,312	26,529
Craftsmen and foremen	7,670	8,328	8,560	9,221	9,843	9,572	9,590
Operatives	12,146	12,762	11,986	13,390	13,884	13,610	13,799
Nonfarm laborers	3,520	3,681	3,665	3,855	3,533	3,130	3,140
Service workers	6,585	7,106	8,349	9,342	9,325	9,373	9,366
Private household workers	1,883	1,946	2,216	2,251	1,769	1,850	1,827
Other service workers	4,652	5,160	6,133	7,091	7,566	7,523	7,539
Farm workers	7,408	6,537	5,395	4,265	3,554	3,153	3,231
<b>Male</b>	<b>42,156</b>	<b>43,191</b>	<b>44,485</b>	<b>47,034</b>	<b>47,480</b>	<b>46,333</b>	<b>47,050</b>
White-collar workers	18,549	14,305	16,598	17,964	18,527	18,357	19,089
Percent of total	32.1	33.1	37.3	38.2	39.0	39.6	40.6
Professional and technical workers	2,696	3,608	4,788	5,602	6,183	6,185	6,442
Managers, officials, and proprietors	5,439	5,454	5,967	6,229	6,318	6,184	6,512
Clerical workers	3,035	2,792	3,154	3,293	3,406	3,377	3,413
Salesworkers	2,379	2,451	2,707	2,840	2,622	2,612	2,723
Blue-collar workers	19,727	20,925	20,573	22,314	22,688	21,834	21,915
Craftsmen and foremen	7,482	8,114	8,338	8,951	9,560	9,301	9,301
Operatives	8,810	9,235	8,652	9,620	9,706	9,491	9,578
Nonfarm laborers	3,435	3,576	3,588	3,743	3,417	3,042	3,035
Service workers	2,685	2,657	2,918	3,287	3,334	3,406	3,268
Private household workers	125	42	45	57	33	44	44
Other service workers	2,580	2,615	2,873	3,230	3,310	3,382	3,224
Farm workers	6,196	5,305	4,398	3,466	2,930	2,736	2,778
<b>Female</b>	<b>17,493</b>	<b>19,807</b>	<b>22,199</b>	<b>25,145</b>	<b>26,893</b>	<b>26,226</b>	<b>27,468</b>
White-collar workers	8,824	10,280	12,129	14,137	15,705	15,361	16,303
Percent of total	50.4	51.9	54.6	56.2	58.4	55.6	59.4
Professional and technical workers	1,794	2,183	2,706	3,280	3,697	3,757	4,019
Managers, officials, and proprietors	990	997	1,039	1,110	1,177	1,108	1,229
Clerical workers	4,597	5,575	6,629	7,873	8,928	8,654	9,239
Salesworkers	1,443	1,525	1,695	1,874	1,904	1,842	1,833
Blue-collar workers	3,608	3,847	3,637	4,153	4,580	4,478	4,614
Craftsmen and foremen	188	215	222	270	286	271	288
Operatives	3,336	3,527	3,333	3,772	4,178	4,119	4,221
Nonfarm laborers	84	105	82	111	117	88	105
Service workers	3,850	4,449	5,431	6,057	5,992	5,967	6,098
Private household workers	1,758	1,904	2,171	2,195	1,737	1,806	1,784
Other service workers	2,092	2,545	3,260	3,862	4,255	4,161	4,315
Farm workers	1,212	1,233	998	799	618	417	453

<sup>1</sup> Based on first month in each quarter. See also footnote 1, table 326. <sup>2</sup> Persons 16 years old and over.

Source: 1950 and 1955, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1960, Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*, and *Manpower Report of the President and A Report on Manpower Requirements, Resources, Utilization, and Training*.

## No. 325. EMPLOYED PERSONS, BY OCCUPATION AND COLOR: 1950 TO 1967

**Percent distribution.** Prior to 1960, excludes Alaska and Hawaii. See headnote, table 310. Annual averages based on data for January, April, July, and October in 1950 and 1955; thereafter, on 12-months data.

MAJOR OCCUPATION GROUP	WHITE					NONWHITE				
	1950	1955	1960	1965	1967	1950	1955	1960	1965	1967
Total employed.....	1,000									
54,286	56,698	59,640	64,432	66,361	5,672	6,496	7,041	7,747	8,011	
Percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
White-collar workers.....										
Professional and technical workers.....	40.3	42.1	46.4	47.5	48.8	10.2	12.0	16.0	19.5	22.9
Managers, officials, and proprietors.....	8.0	9.8	12.0	13.0	14.0	3.0	3.5	4.7	6.8	7.4
Clerical workers.....	11.6	11.1	11.6	11.1	11.0	2.5	2.8	2.5	2.6	2.6
Sales workers.....	13.8	14.2	15.6	16.3	17.2	3.5	4.9	7.2	8.2	11.2
6.9	6.9	7.2	7.1	6.6	1.2	1.3	1.6	1.9	1.7	
Blue-collar workers.....	39.3	39.0	35.9	36.2	36.0	37.5	41.8	39.8	40.7	42.4
Craftsmen and foremen.....	13.7	14.1	13.7	13.5	13.9	4.8	5.2	5.9	6.7	7.7
Operatives.....	20.6	20.2	17.7	18.2	18.1	18.6	20.9	20.1	21.3	23.5
5.0	4.7	4.5	4.5	4.0	4.1	15.8	13.8	12.7	11.2	
Service workers.....	8.5	9.0	10.2	10.7	10.5	33.8	31.6	31.8	31.7	29.4
Private household workers.....	1.6	1.8	2.0	2.0	1.4	17.7	14.8	14.3	12.7	10.4
Other service workers.....	6.9	7.2	8.2	8.7	9.1	16.1	16.8	17.5	19.0	19.0
Farm workers.....	11.7	9.9	7.6	5.6	4.7	18.4	14.5	12.4	8.1	5.3
Farmers and farm managers.....	7.3	6.0	4.3	3.3	2.8	7.5	5.0	3.1	1.8	1.3
Farm laborers.....	4.4	3.9	3.3	2.4	1.9	10.9	9.5	9.3	6.3	4.0

Source: 1950, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50, P-57, and unpublished data. Thereafter, Dept. of Labor, Bureau of Labor Statistics; *Monthly Labor Review* and *Employment and Earnings and Monthly Report on the Labor Force*.

## No. 326. CLASS OF WORKER OF EMPLOYED PERSONS, BY SEX: 1950 TO 1968

[In thousands of persons 14 years old and over, except as noted. See headnote, table 324]

CLASS OF WORKER AND SEX	1950 <sup>1</sup>	1955 <sup>1</sup>	1960	1965	1967 <sup>2</sup>		1968, March <sup>2</sup>
					Average	March	
<b>EMPLOYED IN AGRICULTURE</b>							
<b>Male</b> .....	6,280	5,487	4,678	3,729	3,164	2,932	3,015
Wage and salary workers.....	1,504	1,415	1,558	1,243	1,082	978	1,012
Self-employed workers.....	4,115	3,582	2,687	2,170	1,893	1,765	1,838
Unpaid family workers.....	661	489	433	316	190	159	166
<b>Female</b> .....	1,227	1,243	1,045	856	680	479	522
Wage and salary workers.....	230	285	308	249	221	130	137
Self-employed workers.....	231	149	116	137	108	79	94
Unpaid family workers.....	766	810	621	470	358	270	291
<b>EMPLOYED IN NONAGRICULTURAL INDUSTRIES</b>							
<b>Male</b> .....	36,007	37,803	39,807	43,304	44,315	43,401	44,034
Wage and salary workers.....	31,049	32,934	34,680	38,434	40,369	39,509	40,119
In private households.....	238	254	288	334	206	180	159
Government workers.....	3,831	4,234	4,788	5,685	6,272	6,083	6,298
Other wage and salary workers.....	26,980	28,446	29,613	32,415	33,892	33,246	33,663
Self-employed workers.....	4,885	4,809	5,027	4,794	3,894	3,841	3,861
Unpaid family workers.....	74	60	91	77	52	51	54
<b>Female</b> .....	16,443	18,661	21,151	24,289	26,213	25,748	26,946
Wage and salary workers.....	14,929	17,119	19,287	22,331	24,479	24,056	25,277
In private households.....	1,757	1,962	2,201	2,214	1,760	1,828	1,791
Government workers.....	1,986	2,604	3,155	3,938	4,875	4,847	5,357
Other wage and salary workers.....	11,185	12,554	13,931	16,179	17,845	17,380	18,129
Self-employed workers.....	1,184	1,077	1,340	1,419	1,280	1,224	1,198
Unpaid family workers.....	330	465	524	540	454	469	471

<sup>1</sup> Data have not been adjusted to reflect change in definition of employment and unemployment adopted in January 1957. For adjusted totals, see table 310.

<sup>2</sup> Persons 16 years old and over.

Source: 1950-1955, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1960, Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*.

No. 327. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX, OCCUPATION, AND COLOR:  
1960

[Persons 14 years old and over. For definition, see text, p. 212. "N.e.c." means not elsewhere classified]

SEX AND OCCUPATION	Num- ber (1,000)	Per- cent non- white	SEX AND OCCUPATION	Num- ber (1,000)	Per- cent non- white
<b>Male</b>	<b>45,686</b>	<b>9.6</b>	<b>Male—Continued</b>		
<b>Prof., tech., and kindred wks.</b>	<b>4,543</b>	<b>3.5</b>	<b>Salesworkers—Continued</b>		
Accountants and auditors	396	1.4	Salesmen and sales clerks (n.e.c.) <sup>2</sup>	2,297	1.9
Architects	30	2.3	Manufacturing	424	0.6
Artists and art teachers	68	3.2	Wholesale trade	483	0.9
Authors, editors, and reporters	86	1.4	Retail trade	1,253	2.8
Chemists	77	3.4			
Clergymen	197	7.7	<b>Craftsmen, foremen, kindred</b>		
College presidents, professors, and			<b>workers</b>	<b>8,973</b>	<b>4.9</b>
instructors (n.e.c.)	140	4.0	Bakers	94	8.6
Dentists	81	3.5	Blacksmiths, forgemen, and hammer-	33	5.1
Designers and draftsmen	262	2.4	men	27	3.1
Engineers	552	1.7	Boilermakers	108	2.5
Aeronautical	52	2.1	Cabinetmakers and patternmakers	921	5.3
Civil	157	2.1	Carpenters	167	2.7
Electrical	184	1.7	Compositors and typesetters	131	10.0
Mechanical	160	1.2	Electricians	353	2.2
Other technical engineers	312	0.8	Foremen (n.e.c.)	1,117	1.9
Lawyers and judges	206	1.3	Manufacturing:		
Musicians and music teachers	86	7.9	Durable goods	433	1.1
Natural scientists (n.e.c.)	59	2.8	Nondurable goods (incl. not speci-		
Pharmacists	85	2.6	fied)	263	1.7
Physicians and surgeons	214	4.0	Nonmanufacturing, not reported	421	2.8
Social scientists	43	2.4			
Social, welfare, and recreation wks. <sup>1</sup>	58	11.1	Linemen, servicemen, telegraph, tele-	273	1.7
Teachers	420	7.3	photo, etc., and power	58	0.5
Elementary school	144	10.2	Locomotive engineers	39	2.4
Secondary school	276	5.8	Machinists and jobsetters	549	2.8
Teachers (n.e.c.)	58	5.4	Masons, tilesetters, and stonecutters	213	12.3
Technicians	142	5.7	Mechanics and repairmen	922	6.8
Medical and dental	63	10.0	Airplane	117	4.6
Electrical and electronic	89	3.0	Automobile	701	7.4
Other prof., technical, and kindred	971	3.5	Radio and TV	104	5.1
Farmers and farm managers	2,406	7.4	Other mechanics, repairmen, etc.	1,375	5.6
Managers, officials, and proprie- tors except farm	4,695	2.0	Millwrights	68	1.9
Officials and inspectors, State and local			Molders, metal	51	23.5
admin.	136	2.0	Painters (const.), paperhangers, etc.	433	7.7
Other specified managers and officials	604	2.2	Plasterers and cement finishers	100	22.8
Managers, officials, and proprietors			Plumbers and pipefitters	330	3.8
(n.e.c.)—salaried <sup>2</sup>	2,252	1.3	Printing craftsmen <sup>3</sup>	127	2.6
Manufacturing	610	0.5	Shoemakers and repairers, exc. factory	34	13.0
Wholesale and retail trade	709	1.6	Stationary engineers	274	2.3
Finance, ins., and real estate	295	1.4	Structural metal workers	66	5.0
Managers, officials, and proprietors			Tailors and furriers	37	7.4
(n.e.c.)—self-employed <sup>2</sup>	1,703	2.8	Tinsmiths, coppersmiths, etc.	144	2.4
Construction	228	2.2	Toolmakers, die makers, and setters	185	1.0
Manufacturing	160	1.2	Other craftsmen and kindred workers	744	5.6
Wholesale trade	129	2.8			
Eating and drinking places	146	5.6	<b>Operatives and kindred workers</b>	<b>9,234</b>	<b>11.1</b>
Retail trade, except eating and			Apprentices	85	3.1
drinking places	681	2.3	Assemblers	376	7.7
Clerical and kindred workers	3,120	6.8	Attendants, auto service, and parking	370	10.0
Bookkeepers	153	2.0	Brakemen and switchmen, railroad	124	3.0
Mail carriers	197	11.0	Bus drivers	166	10.8
Other clerical and kindred workers	2,770	6.8	Checkers, examiners, and insp., mfg.	278	3.6
Salesworkers	3,055	2.1	Filers, grinders, etc., metal	150	8.3
Insurance agents, brokers, etc.	333	1.9	Furnacemen, smeltermen, and pourers	56	23.8
Real estate agents and brokers	149	2.1	Laundry and dry cleaning operatives	116	38.3
Other specified salesworkers	276	3.9	Meat cutters, exc. slaughter, etc.	180	5.0
			Mine operatives and laborers (n.e.c.)	329	5.2
			Packers and wrappers (n.e.c.)	191	16.5
			Painters, exc. construction and maint.	134	11.1
			Power station operators	26	1.7
			Sailors and deckhands	40	13.5
			Sawyers	92	18.3
			Spinners and weavers, textile	49	1.2
			Stationary firemen	92	13.0
			Cab drivers and chauffeurs	166	19.1

See footnotes at end of table.

No. 327. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX, OCCUPATION, AND COLOR:  
1960—Continued

[Persons 14 years old and over]

SEX AND OCCUPATION	Num- ber (1,000)	Per- cent non- white	SEX AND OCCUPATION	Num- ber (1,000)	Per- cent non- white		
<b>Male—Continued</b>							
<b>Operatives and kindred workers—Continued</b>							
Truck drivers	2,081	13.4					
Welders and flame-cutters	368	6.7					
Other specified operatives and workers	256	8.3					
Operatives and kindred wks. (n.e.c.)	3,507	11.1					
Manufacturing	2,934	10.2					
Durable goods	1,611	10.4					
Nondurable goods	1,317	9.9					
Not specified manufacturing indus.	6	20.5					
Nonmanufacturing (incl. not reptd.) <sup>1</sup>	573	15.9					
Trans., comm., and other pub. util.	138	12.6					
Wholesale and retail trade	160	18.4					
Private household workers	65	48.4					
Service wks., exc., priv. hhld.	2,745	21.5					
Barbers	175	9.6					
Charwomen and janitors <sup>2</sup>	754	38.5					
Cooks	216	27.4					
Elevator operators	52	22.1					
Firemen, fire protection	139	2.5					
Guards and watchmen	250	5.9					
Policemen and sheriffs <sup>3</sup>	277	3.9					
Waiters, bartenders, and counter wks.	331	14.8					
Other service workers	651	24.5					
Farm laborers and foremen	1,290	24.0					
Unpaid family workers	159	13.8					
Except unpaid, and farm foremen	1,131	25.4					
Laborers, except farm and mine	3,405	26.1					
Fishermen and oystermen	40	12.9					
Longshoremen and stevedores	60	38.0					
Lumbermen, raftsmen, and woodchoppers	135	30.1					
Other specified laborers	520	25.4					
Laborers (n.e.c.)	2,649	25.9					
Manufacturing	898	24.3					
Nonmanufacturing (incl. not reptd.)	1,750	26.7					
Occupation not reported	2,156	17.5					
Female	22,304	12.8					
Prof., tech., kindred workers	2,793	7.2					
Accountants and auditors	80	2.5					
Actors, dancers, etc. (n.e.c.)	25	4.3					
Artists and art teachers	37	2.7					
Authors, editors, and reporters	46	1.2					
College pres., prof., and inst. (n.e.c.)	39	5.7					
Designers and draftsmen	25	3.4					
Dietitians and nutritionists	25	16.0					
Lawyers and judges	8	2.6					
Librarians	72	5.1					
Musicians and music teachers	111	3.3					
Natural scientists	15	6.2					
Nurses, professional	577	6.5					
Nurses, student professional	57	3.8					
Physicians and surgeons	16	10.1					
Social scientists	14	3.5					
Social, welfare, and rec. workers <sup>4</sup>	78	12.4					
Teachers	1,112	9.1					
Elementary school	867	9.5					
Secondary school	246	8.0					
Teachers (n.e.c.)	94	7.4					
Technicians, medical and dental	88	7.8					
Therapists and healers (n.e.c.)	20	5.9					
Other	254	4.8					
<b>Female—Continued</b>							
<b>Farmers and farm managers</b>							
Farmers, officials, and proprietors, except farm	120	15.1					
Managers, officials, and proprietors, except farm	794	3.9					
Specified managers and officials	163	2.6					
Managers, officials, and proprietors (n.e.c.)—salaried	341	3.1					
Managers, officials, and proprietors (n.e.c.)—self-employed	290	5.6					
<b>Clerical and kindred workers</b>							
Bookkeepers	783	1.4					
Cashiers	387	3.7					
Office-machine operators	236	5.0					
Secretaries	1,452	2.0					
Stenographers	264	2.8					
Telephone operators	356	2.6					
Typists	517	0.7					
Other clerical and kindred workers	2,602	4.8					
<b>Salesworkers</b>							
Salesworkers	1,746	2.8					
Insurance and real estate agents <sup>5</sup>	83	4.4					
Other specified sales workers	72	3.2					
Salesmen, sales clerks (n.e.c.):	1,472	2.7					
Retail trade	120	3.2					
Except retail trade							
<b>Craftsmen, foremen, kindred workers</b>							
Craftsmen, foremen, kindred workers	268	7.3					
Foremen (n.e.c.)	82	4.1					
Other craftsmen and kindred workers	187	8.7					
<b>Operatives and kindred workers</b>							
Operatives and kindred workers	3,612	10.6					
Assemblers	311	5.6					
Checkers, examiners, and insp., mfg.	237	4.4					
Dressmakers, etc., exc. factory	120	9.2					
Laundry and dry cleaning operatives	296	37.8					
Spinners and weavers, textile	69	0.7					
Other	1,095	7.3					
Operatives and kindred wks. (n.e.c.):	1,486	10.2					
Manufacturing	1,371	9.5					
Nonmanufacturing (incl. not reptd.)	115	19.5					
<b>Private household workers</b>							
Living in	1,760	54.5					
Living out <sup>6</sup>	160	26.4					
Service wks., exc. priv. hhld.	1,800	57.3					
<b>Service wks., exc. priv. hhld.</b>							
Attendants, hospital, etc.	301	24.3					
Charwomen, janitors <sup>7</sup>	213	26.6					
Cooks	381	23.5					
Hairdressers and cosmetologists	272	12.7					
Housekeepers, etc., exc. priv. hhld.	122	10.5					
Practical nurses and midwives	208	17.2					
Waiters, bartenders, and counter wks.	917	7.6					
Other service workers	606	35.9					
<b>Farm laborers and foremen</b>							
Farm laborers and foremen	270	33.9					
Unpaid family workers	125	12.7					
Exc. unpaid family wks., farm foremen	144	52.3					
Laborers, exc. farm and mine	125	24.0					
Occupation not reported	1,298	18.4					

<sup>1</sup> Includes group workers. <sup>2</sup> Includes other industries not shown separately. <sup>3</sup> Excludes compositors and typesetters. <sup>4</sup> Includes deliverymen and tractor drivers. <sup>5</sup> Includes porters and sextons. <sup>6</sup> Includes marshals, constables, detectives, and bailiffs. <sup>7</sup> Includes brokers and underwriters.

<sup>8</sup> Includes all babysitters, whether living in or living out.

**No. 328. INDEXES OF OUTPUT PER MAN-HOUR, HOURLY COMPENSATION, AND UNIT LABOR COSTS IN THE PRIVATE ECONOMY: 1947 TO 1967**

[1957-59=100. Prior to 1960, excludes Alaska and Hawaii. Employee compensation includes wages and salaries, and employer contributions to social security, private insurance and pension funds, compensation for injuries and other minor items of labor income. All person compensation includes, in addition, estimates of wages, salaries, and supplemental benefits for the self-employed. Nonlabor payments are the difference between labor payments and gross product in current dollars]

ITEM	1947	1950	1955	1960	1965	1966	1967
<b>Output per man-hour:</b>							
Total private economy:							
Output per man-hour—all persons.....	69.0	80.3	98.9	105.0	126.3	130.2	132.0
Output per man-hour—employees.....	74.5	85.1	95.3	103.8	121.1	123.3	124.5
Private nonfarm sector:							
Output per man-hour—all persons.....	74.1	84.4	95.7	104.4	123.3	126.4	127.6
Output per man-hour—employees.....	74.7	85.3	95.4	104.2	121.4	123.6	124.4
Manufacturing:							
Output per man-hour—all persons.....	72.3	85.0	97.2	105.5	129.5	132.3	133.5
Output per man-hour—employees.....	72.9	85.4	97.4	105.3	129.0	131.7	132.9
<b>Compensation per man-hour:</b>							
Total private economy:							
Compensation per man-hour—all persons.....	54.8	64.7	84.5	108.5	133.6	142.8	151.3
Real compensation per man-hour—all persons.....	70.4	77.2	90.6	105.2	121.6	126.3	130.1
Compensation per man-hour—employees.....	55.6	65.7	85.4	107.9	130.7	138.7	146.7
Real compensation per man-hour—employees.....	71.5	78.4	91.5	104.7	118.9	122.6	126.1
Private nonfarm sector:							
Compensation per man-hour—all persons.....	56.2	66.4	85.9	108.4	130.8	138.6	146.7
Real compensation per man-hour—all persons.....	72.2	79.2	92.1	105.1	119.0	122.5	126.1
Compensation per man-hour—employees.....	55.7	65.9	85.8	108.4	130.2	137.8	145.6
Real compensation per man-hour—employees.....	71.6	78.6	92.0	105.1	118.5	121.8	125.2
Manufacturing:							
Compensation per man-hour—all persons.....	52.5	63.2	85.0	108.5	129.0	135.4	143.6
Real compensation per man-hour—all persons.....	67.5	75.4	91.1	105.2	117.4	119.7	123.5
Compensation per man-hour—employees.....	52.5	63.2	85.0	108.5	129.1	135.5	143.6
Real compensation per man-hour—employees.....	67.5	75.4	91.1	105.2	117.5	119.8	123.5
<b>Prices and costs:</b>							
Total private economy:							
Implicit prices.....	76.3	81.5	91.7	102.9	109.1	111.8	114.9
Compensation per unit of output—all persons.....	79.4	80.6	90.0	103.2	105.8	109.7	114.6
Compensation per unit of output—employees.....	74.6	77.2	89.6	103.9	107.9	112.5	117.9
Nonlabor payments per unit of output—all persons.....	71.3	83.1	95.3	102.4	114.6	115.4	115.5
Nonlabor payments per unit of output—employees.....	78.6	86.5	94.2	101.7	110.5	111.0	111.5
Private nonfarm sector:							
Implicit prices.....	73.5	80.0	91.6	103.2	108.2	111.5	115.2
Compensation per unit of output—all persons.....	75.7	78.7	89.8	103.8	106.1	109.6	114.9
Compensation per unit of output—employees.....	74.6	77.3	89.9	104.0	107.2	111.4	117.0
Nonlabor payments per unit of output—all persons.....	69.6	82.3	94.7	102.1	114.5	114.7	115.7
Nonlabor payments per unit of output—employees.....	72.3	83.4	93.9	102.2	111.5	111.6	112.9
Manufacturing:							
Implicit prices.....	73.0	79.5	90.7	102.7	104.2	106.2	(NA)
Compensation per unit of output—all persons.....	72.6	74.4	87.4	102.9	99.7	102.3	107.5
Compensation per unit of output—employees.....	72.0	74.0	87.3	103.0	100.1	102.9	108.1
Nonlabor payments per unit of output—all persons.....	74.0	91.8	98.5	102.3	115.3	115.4	(NA)
Nonlabor payments per unit of output—employees.....	75.3	91.7	98.1	102.2	113.5	113.4	(NA)
Consumer price index.....	77.8	83.8	93.3	103.1	109.9	113.1	116.3

NA. Not available.

Source: Dept. of Labor, Bureau of Labor Statistics; annual releases, *Indexes of Output Per Man-Hour, Hourly Compensation, and Unit Labor Costs in the Private Sector of the Economy and the Nonfarm Sector; Indexes of Output Per Man-Hour, Hourly Compensation, and Unit Labor Costs in the Manufacturing Sector*.

**No. 329. OUTPUT PER MAN-HOUR IN THE PRIVATE ECONOMY: 1947 TO 1967**

[Prior to 1960, excludes Alaska and Hawaii. Refers to constant (1958) dollar value of goods and services produced in relation to hours of all persons employed, including proprietors and unpaid family workers. See *Historical Statistics, Colonial Times to 1957*, series W 9-11, for indexes on a 1947-49 base.]

YEAR	INDEXES (1957-59=100)						PERCENT CHANGE BASED ON ESTABLISHMENT REPORTS <sup>1</sup>		
	Based on labor force reports			Based on establishment reports			Total	Farm	Nonfarm
	Total	Farm	Nonfarm	Total	Farm	Nonfarm			
1947	67.9	49.8	72.9	69.0	49.8	74.1	(X)	(X)	(X)
1950	78.5	64.1	82.4	80.3	64.4	84.4	8.2	14.0	6.2
1955	94.7	84.0	96.7	93.9	84.4	95.7	4.4	0.8	4.5
1960	104.5	110.7	103.8	105.0	110.7	104.4	1.5	5.6	1.3
1965	124.8	147.7	121.5	126.3	147.5	123.3	3.1	8.9	2.8
1966	129.3	154.4	125.2	130.2	154.6	126.4	3.1	4.8	2.5
1967	131.5	170.4	127.0	132.0	171.2	127.6	1.4	10.5	0.9

X. Not applicable. <sup>1</sup> Change from preceding calendar year.

Source: Dept. of Labor, Bureau of Labor Statistics; *Indexes of Output Per Man-Hour for the Private Economy*.

## Labor Force, Employment, and Earnings

## No. 330. INDEXES OF OUTPUT PER MAN-HOUR—ALL EMPLOYEES AND PRODUCTION WORKERS, SELECTED INDUSTRIES: 1950 TO 1966

[1957-59=100, except as indicated. Prior to 1960, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series W 13-32 and W 44, for indexes on a 1947 base]

INDUSTRY	OUTPUT PER PRODUCTION WORKER MAN-HOUR					OUTPUT PER ALL EMPLOYEE MAN-HOUR				
	1950	1955	1960	1965 (prel.)	1966 (prel.)	1950	1955	1960	1965 (prel.)	1966 (prel.)
<b>NONMANUFACTURING</b>										
Air transportation <sup>1</sup>	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	55.7	89.5	107.1	172.0	194.4
Coal mining <sup>2 3 4</sup>	61.6	87.7	114.9	152.9	161.7	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Bituminous coal <sup>3 4</sup>	61.9	88.2	111.9	154.2	162.9	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Copper (recoverable metal) <sup>3 4</sup>	84.3	90.0	103.6	119.6	119.7	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Iron (usable ore) <sup>3 4</sup>	93.6	111.3	104.7	127.8	127.8	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Railroad transportation (revenue traffic) <sup>5</sup>	71.1	88.3	111.1	159.8	171.6	72.8	89.4	110.4	157.5	169.2
Gas and electric utilities <sup>6</sup>	52.3	81.3	115.7	160.4	(N.A.)	54.6	82.5	114.7	156.0	(N.A.)
<b>MANUFACTURING</b> <sup>7</sup>										
Aluminum rolling and drawing <sup>8 9</sup>	(N.A.)	(N.A.)	102.0	161.1	(N.A.)	(N.A.)	(N.A.)	102.3	164.9	(N.A.)
Beet sugar <sup>6</sup>	75.4	(N.A.)	108.7	123.4	(N.A.)	73.7	(N.A.)	109.1	124.1	(N.A.)
Candy and other confectionery products <sup>6</sup>	71.7	88.0	107.6	122.9	(N.A.)	70.6	87.8	107.9	128.0	(N.A.)
Canning and preserving <sup>8</sup>	76.1	90.0	108.5	128.6	(N.A.)	78.8	92.2	108.3	129.1	(N.A.)
Cement <sup>8</sup>	67.5	92.1	105.7	146.8	(N.A.)	69.2	93.5	104.7	139.8	(N.A.)
Concrete products <sup>8</sup>	72.1	93.2	94.1	120.4	(N.A.)	74.8	94.0	96.2	118.7	(N.A.)
Flour and other grain-mill products <sup>8</sup>	69.7	86.8	104.8	135.0	(N.A.)	72.4	87.5	104.5	138.6	(N.A.)
Footwear <sup>8</sup>	84.4	92.7	103.2	107.5	(N.A.)	85.0	93.4	103.0	108.4	(N.A.)
Glass containers <sup>8</sup>	95.1	99.7	100.4	118.4	(N.A.)	96.7	100.4	100.4	118.6	(N.A.)
Hosiery <sup>8</sup>	72.9	83.3	107.7	149.6	(N.A.)	74.0	83.9	108.1	150.1	(N.A.)
Malt liquors <sup>8</sup>	77.8	87.2	108.9	146.8	(N.A.)	78.2	87.7	110.9	149.5	(N.A.)
Man-made fibers <sup>8</sup>	(N.A.)	(N.A.)	103.4	133.1	(N.A.)	(N.A.)	(N.A.)	103.0	133.2	(N.A.)
Paper, paperboard, and pulp mills <sup>8</sup>	78.4	90.4	109.5	140.3	(N.A.)	81.5	92.4	108.2	138.1	(N.A.)
Petroleum refining <sup>8</sup>	68.3	87.8	115.9	166.5	(N.A.)	71.4	89.3	114.8	163.6	(N.A.)
Primary aluminum <sup>8</sup>	69.3	82.2	121.3	141.6	(N.A.)	72.4	85.0	121.4	144.4	(N.A.)
Primary smelting and refining of copper, lead, and zinc <sup>8</sup>	84.5	98.7	105.2	128.8	(N.A.)	88.5	101.0	106.0	131.5	(N.A.)
Steel <sup>8</sup>	87.7	99.8	99.6	119.6	122.7	93.9	105.2	98.6	121.3	123.7
Tires and inner tubes <sup>8</sup>	82.7	86.2	111.5	154.8	(N.A.)	86.5	89.2	111.1	153.9	(N.A.)
Tobacco products <sup>8</sup>	80.4	88.2	114.0	136.7	(N.A.)	81.2	84.2	112.9	134.1	(N.A.)
Cigars <sup>8</sup>	66.0	74.0	123.4	174.9	(N.A.)	67.0	74.9	122.7	173.4	(N.A.)
Cigarettes, chewing and smoking tobacco, and snuff <sup>8</sup>	96.2	92.2	107.8	117.1	(N.A.)	96.4	92.9	106.5	114.5	(N.A.)

N.A. Not available. <sup>1</sup> For this industry, indexes refer to output per all employee rather than output per all employed man-hour. <sup>2</sup> Includes anthracite and bituminous coal. <sup>3</sup> Man-hours paid.

<sup>4</sup> Adjusted to levels indicated by 1939, 1954, 1958, and 1963 Censuses of Mineral Industries.

<sup>5</sup> Class I line-haul railroads and switching and terminal companies; in terms of hours worked plus constructive allowances.

<sup>6</sup> For this industry indexes refer to output per nonsupervisory worker man-hour rather than output per production worker man-hour. <sup>7</sup> Man-hours worked, except as noted.

<sup>8</sup> Adjusted to levels indicated by 1947, 1954, 1958, and 1963 Censuses of Manufactures. <sup>9</sup> 1958=100.

Source: Dept. of Labor, Bureau of Labor Statistics; *Indexes of Output Per Man-Hour for Selected Industries, 1939 and 1947-66*.

## No. 331. PRODUCTION WORKERS, MANUFACTURING INDUSTRIES—NUMBER, EARNINGS, AND HOURS: 1940 TO 1968

[Prior to 1960, excludes Alaska and Hawaii. Workers include all full- and part-time employees who worked during, or received pay for, any part of pay period including 12th of month. Net spendable average weekly earnings represent average gross earnings less social security and Federal income taxes. Overtime defined as work in excess of either straight-time workday or workweek and paid for at time and one-half. See *Historical Statistics, Colonial Times to 1957*, series D 626-628, for related but not comparable data]

YEAR	Workers, annual average (1,000)	Gross average weekly earnings	NET SPENDABLE AVERAGE WEEKLY EARNINGS				Average weekly hours	AVERAGE HOURLY EARNINGS		
			Worker with no dependents		Worker with 3 dependents			Gross	Exclud- ing overtime	
			Current dollars	1957-59 dollars	Current dollars	1957-59 dollars				
1940	8,940	\$24.96	\$24.46	\$50.12	\$24.71	\$50.64	38.1	\$0.66	(N.A.)	
1945	13,009	44.20	36.82	58.72	42.59	67.93	43.5	1.02	<sup>1</sup> \$0.95	
1950	12,523	58.32	50.26	59.98	56.36	67.26	40.5	1.44	1.39	
1955	13,288	75.70	62.61	67.00	69.79	74.80	40.7	1.86	1.79	
1960	12,586	89.72	72.57	70.39	80.11	77.70	39.7	2.26	2.20	
1965	13,434	107.53	89.08	81.06	96.78	88.06	41.2	2.61	2.51	
1966	14,273	112.34	91.57	80.98	99.45	87.93	41.3	2.72	2.59	
1967	14,226	114.90	93.28	80.21	101.26	87.07	40.6	2.83	2.72	
1968, March (prel.)	14,164	120.18	97.29	81.41	105.50	88.28	40.6	2.96	2.84	

N.A. Not available. <sup>1</sup> 11-month average; August 1945 excluded because of V-J day holiday period.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*.

# Hours and Earnings—Production Workers

231

## No. 332. HOURLY AND WEEKLY EARNINGS IN CURRENT AND 1967 PRICES, SELECTED INDUSTRIES: 1940 TO 1967

[Prior to 1960, excludes Alaska and Hawaii. Includes overtime. Data are for production workers in manufacturing, construction workers in contract construction, and nonsupervisory employees in retail trade]

TYPE OF EARNINGS AND YEAR	MANUFACTURING						CONTRACT CONSTRUCTION		RETAIL TRADE	
	Total		Durable		Nondurable		Current prices	1967 prices <sup>1</sup>	Current prices <sup>2</sup>	1967 prices <sup>1</sup>
	Current prices	1967 prices <sup>1</sup>	Current prices	1967 prices <sup>1</sup>	Current prices	1967 prices <sup>1</sup>				
<b>HOURLY</b>										
1940	\$0.66	\$1.57	\$0.72	\$1.71	\$0.59	\$1.40	(NA)	(NA)	\$0.49	\$1.17
1945	1.02	1.89	1.10	2.04	.89	1.65	(NA)	(NA)	.70	1.30
1950	1.44	2.00	1.52	2.11	1.35	1.87	\$1.86	\$2.58	.98	1.36
1955	1.86	2.32	1.99	2.48	1.67	2.08	2.45	3.05	1.25	1.56
1960	2.26	2.55	2.43	2.74	2.05	2.31	3.08	3.47	1.52	1.71
1965	2.61	2.76	2.79	2.95	2.36	2.50	3.70	3.92	1.82	1.93
1966	2.72	2.80	2.90	2.98	2.45	2.52	3.88	3.99	1.91	1.97
1967	2.83	2.83	3.00	3.00	2.57	2.57	4.09	4.09	2.01	2.01
<b>WEEKLY</b>										
1940	24.96	50.43	28.07	66.83	21.83	51.98	(NA)	(NA)	21.34	50.81
1945	44.20	82.00	48.36	89.72	37.48	69.54	(NA)	(NA)	28.59	53.04
1950	58.32	80.89	62.43	86.59	53.48	74.17	69.68	96.64	39.71	55.08
1955	75.70	94.39	82.19	102.48	66.63	88.08	90.90	113.34	48.75	60.79
1960	89.72	101.15	97.44	109.85	80.36	90.60	113.04	127.44	57.76	65.12
1965	107.53	113.79	117.18	124.00	94.64	100.15	138.38	146.43	66.61	70.49
1966	112.34	115.58	122.09	125.61	98.49	101.33	145.89	150.00	68.57	70.55
1967	114.90	114.90	123.60	123.60	102.03	102.03	154.19	154.19	70.95	70.95

NA. Not available. <sup>1</sup> Earnings in current prices divided by consumer price index on base 1967=100.

<sup>2</sup> Beginning 1950, includes eating and drinking places.

Source: Executive Office of the President, Council of Economic Advisers. Based on Dept. of Labor data.

## No. 333. PRODUCTION WORKERS, MANUFACTURING INDUSTRIES—PERCENT DISTRIBUTION BY AVERAGE HOURLY EARNINGS, BY REGIONS: 1958 AND 1964

[1958 excludes Alaska and Hawaii. Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. For composition of regions, see fig. I, p. xii]

AVERAGE HOURLY EARNINGS	UNITED STATES		NORTHEAST		SOUTH		NORTH CENTRAL		WEST	
	Workers	Cumulative workers	Workers	Cumulative workers	Workers	Cumulative workers	Workers	Cumulative workers	Workers	Cumulative workers
<b>May 1958</b>										
Number of workers										
1,000...	11,245		3,994		2,422		3,772		1,056	
Average hourly earnings	\$1.97		\$1.94		\$1.63		\$2.13		\$2.26	
Under \$1.20	13.2		10.9		32.5		5.9		3.4	
\$1.20 to \$1.39	9.8	22.9	11.7	22.6	15.8	48.3	5.6	11.4	3.5	6.9
\$1.40 to \$1.59	8.9	31.8	11.0	33.6	9.8	58.2	7.2	18.6	4.8	11.6
\$1.60 to \$1.79	9.8	41.7	11.7	45.3	8.8	66.9	9.5	28.1	6.7	18.4
\$1.80 to \$1.99	10.2	51.8	10.9	56.2	6.5	73.4	11.8	39.8	10.4	28.8
\$2.00 to \$2.19	11.8	63.7	11.5	67.8	5.6	79.1	14.6	54.4	17.8	46.6
\$2.20 to \$2.39	11.7	75.4	10.1	77.8	6.0	85.1	16.1	70.5	15.3	61.9
\$2.40 to \$2.59	8.5	84.0	7.8	85.6	4.9	90.0	10.5	81.0	12.8	74.7
\$2.60 to \$2.79	6.1	90.0	5.4	91.1	3.5	93.5	6.9	87.8	11.3	86.0
\$2.80 to \$2.99	4.2	94.3	3.7	94.7	3.2	96.7	5.3	93.0	5.5	91.4
\$3.00 and over	5.7	100.0	5.3	100.0	3.3	100.0	7.0	100.0	8.6	100.0
<b>March 1964</b>										
Number of workers										
1,000...	12,576		4,169		2,913		4,154		1,340	
Average hourly earnings	\$2.30		\$2.29		\$1.90		\$2.47		\$2.67	
Under \$1.25	0.7		0.3		1.8		0.5		0.1	
\$1.25 to \$1.39	12.2	12.9	9.9	10.2	28.3	30.1	6.1	6.6	3.6	3.7
\$1.40 to \$1.59	9.8	22.7	10.4	20.6	16.2	46.3	6.3	12.9	4.1	7.8
\$1.60 to \$1.79	8.2	30.9	9.2	29.8	10.6	56.9	6.9	19.8	4.6	12.4
\$1.80 to \$1.99	7.8	38.7	8.9	38.7	7.5	64.4	7.4	27.2	5.7	18.1
\$2.00 to \$2.19	8.7	47.4	10.0	48.7	7.1	71.5	8.9	36.1	7.7	25.8
\$2.20 to \$2.39	8.6	56.0	9.8	58.5	5.7	77.2	9.3	45.4	9.4	35.2
\$2.40 to \$2.59	9.0	65.0	9.3	67.8	5.2	82.4	10.5	55.9	11.4	46.6
\$2.60 to \$2.79	9.5	74.5	8.4	76.2	4.4	86.8	13.4	69.3	11.4	58.0
\$2.80 to \$2.99	7.6	82.1	6.9	83.1	3.7	90.5	10.4	79.7	10.2	68.2
\$3.00 and over	17.9	100.0	16.9	100.0	9.5	100.0	20.3	100.0	31.8	100.0

Source: Dept. of Labor, Bureau of Labor Statistics; *Factory Workers' Earnings*, May 1958 (Bulletin No. 1252) and unpublished data.

No. 334. PRODUCTION WORKERS, MANUFACTURING INDUSTRIES—HOURS AND GROSS EARNINGS, BY STATES: 1960, 1965, AND 1967

STATE	AVERAGE WEEKLY EARNINGS			AVERAGE WEEKLY HOURS			AVERAGE HOURLY EARNINGS		
	1960	1965	1967	1960	1965	1967	1960	1965	1967
	\$89.72	\$107.53	\$114.90	39.7	41.2	40.6	\$2.26	\$2.61	\$2.83
<b>United States<sup>1</sup></b>									
New England:									
Maine.....	71.15	85.08	93.07	40.2	41.3	41.0	1.77	2.06	2.27
New Hampshire.....	70.45	84.25	91.48	39.8	40.9	40.3	1.77	2.06	2.27
Vermont.....	76.59	92.01	102.72	41.4	42.4	42.1	1.85	2.17	2.44
Massachusetts.....	81.96	98.74	108.00	39.2	40.3	40.0	2.00	2.45	2.70
Rhode Island.....	73.70	88.51	96.80	39.2	40.6	40.5	1.88	2.18	2.39
Connecticut.....	93.26	113.25	123.65	40.2	42.1	42.2	2.32	2.69	2.98
Middle Atlantic:									
New York.....	89.61	106.40	114.44	38.8	39.7	39.6	2.31	2.68	2.89
New Jersey.....	93.93	112.34	118.96	39.6	41.0	40.6	2.37	2.74	2.93
Pennsylvania.....	89.86	107.73	112.52	38.9	40.5	39.9	2.31	2.66	2.82
East North Central:									
Ohio.....	104.13	127.02	132.48	40.0	42.2	41.5	2.60	3.01	3.19
Indiana.....	100.49	121.66	126.58	40.0	41.7	40.7	2.51	2.92	3.11
Illinois.....	97.70	117.28	125.04	40.0	41.4	40.8	2.45	2.83	3.07
Michigan.....	112.00	143.79	145.78	40.8	44.6	42.0	2.75	3.22	3.47
Wisconsin.....	96.32	114.55	123.05	40.6	41.7	41.2	2.37	2.75	2.99
West North Central:									
Minnesota.....	95.07	112.20	122.12	40.4	41.2	41.2	2.36	2.72	2.97
Iowa.....	93.68	113.36	123.33	39.8	40.7	40.9	2.35	2.78	3.01
Missouri.....	87.57	105.51	114.97	39.1	40.3	40.2	2.24	2.62	2.86
North Dakota.....	81.85	100.38	102.28	41.4	42.5	40.6	1.97	2.36	2.52
South Dakota.....	90.90	103.81	117.96	45.0	43.8	45.9	2.02	2.37	2.57
Nebraska.....	87.41	103.67	110.88	42.0	43.1	42.2	2.08	2.40	2.68
Kansas.....	95.82	113.95	119.68	40.6	42.3	42.1	2.36	2.69	2.84
South Atlantic:									
Delaware.....	91.01	114.96	117.71	39.4	41.5	39.9	2.31	2.77	2.95
Maryland.....	90.63	107.94	114.21	40.1	41.2	40.5	2.26	2.62	2.82
District of Columbia <sup>2</sup> .....	97.61	113.51	122.50	39.2	40.2	40.0	2.49	2.82	3.07
Virginia.....	70.62	87.56	93.43	39.9	41.5	40.8	1.77	2.11	2.29
West Virginia.....	93.27	110.70	116.40	38.7	40.4	40.0	2.41	2.74	2.91
North Carolina.....	61.14	75.17	81.81	39.7	41.3	40.3	1.54	1.82	2.03
South Carolina.....	63.27	78.77	84.66	40.3	41.9	40.9	1.57	1.88	2.07
Georgia.....	65.40	82.61	89.73	39.4	41.1	40.6	1.66	2.01	2.21
Florida.....	76.07	91.37	100.88	40.9	42.3	42.2	1.86	2.16	2.39
East South Central:									
Kentucky.....	88.92	102.91	107.87	39.4	41.0	39.9	2.18	2.51	2.71
Tennessee.....	73.23	85.27	91.43	39.8	40.8	40.1	1.84	2.09	2.28
Alabama.....	75.65	93.63	98.16	39.4	41.8	40.9	1.92	2.24	2.40
Mississippi.....	60.50	74.98	82.62	39.8	41.2	40.7	1.52	1.82	2.03
West South Central:									
Arkansas.....	62.71	75.08	81.41	40.2	41.0	40.3	1.56	1.88	2.02
Louisiana.....	86.71	107.87	114.78	40.9	42.3	42.2	2.12	2.55	2.72
Oklahoma.....	85.47	101.22	107.16	40.7	42.0	40.9	2.10	2.41	2.62
Texas.....	89.19	103.91	111.49	41.1	41.9	41.6	2.17	2.48	2.68
Mountain:									
Montana.....	96.04	114.80	122.36	39.2	41.0	39.6	2.45	2.80	3.09
Idaho.....	90.00	106.00	112.58	40.0	40.0	39.5	2.25	2.65	2.85
Wyoming.....	95.25	108.38	126.88	37.5	37.9	41.6	2.54	2.86	3.05
Colorado.....	98.25	116.18	121.36	40.6	41.2	41.0	2.42	2.82	2.96
New Mexico.....	82.58	93.79	97.12	39.7	40.6	40.3	2.08	2.31	2.41
Arizona.....	99.14	113.85	119.02	40.3	41.1	40.9	2.46	2.77	2.91
Utah.....	98.89	114.45	120.70	40.2	40.3	40.1	2.46	2.84	3.01
Nevada.....	113.30	126.88	142.52	41.2	39.9	39.7	2.75	3.18	3.59
Pacific:									
Washington.....	101.78	122.06	133.12	38.7	39.5	39.5	2.63	3.09	3.37
Oregon.....	97.04	117.01	123.24	38.1	39.8	39.0	2.55	2.94	3.16
California.....	104.28	123.83	132.92	39.8	40.6	40.4	2.62	3.05	3.29
Alaska.....	(NA)	159.47	168.78	(NA)	43.1	39.9	(NA)	3.70	4.23
Hawaii.....	(NA)	89.60	100.35	(NA)	39.3	39.2	(NA)	2.28	2.56

NA. Not available.

<sup>1</sup> For 1960, Alaska and Hawaii included in United States averages but individual State data not available.<sup>2</sup> Represents Washington, D.C., Standard Metropolitan Statistical Area.Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*. Compiled from data supplied by cooperating State agencies.

No. 335. MEDIAN EARNINGS OF MALE CIVILIANS BY OCCUPATION OF LONGEST JOB:  
1958 TO 1966

[In dollars. Covers persons 14 years old and over as of March of year following year shown. Earnings relate to longest job held in year shown. Based on sample; see text, p. 1. For definition of median, see headnote, table 8.]

OCCUPATION GROUP	ALL WORKERS				YEAR-ROUND FULL-TIME WORKERS			
	1958	1960	1965	1966	1958	1960	1965	1966
	4,068	4,392	5,339	5,809	4,888	5,368	6,388	6,856
<b>Total with earnings.....</b>								
Professional, technical, and kindred workers.....	6,132	6,566	7,668	8,330	6,730	7,115	8,459	9,205
Self-employed.....	9,945	9,188	10,360	12,269	11,231	10,858	11,799	14,880
Medical and other health workers.....	11,805	10,533	13,015	15,706	(B)	12,777	13,670	16,381
Other self-employed workers.....	8,934	8,250	8,523	10,991	(B)	10,208	13,845	
Salaried.....	5,938	6,444	7,547	8,115	6,514	6,954	8,289	8,958
Engineers, technical.....	7,738	8,241	9,958	10,821	8,151	8,740	10,375	11,218
Medical and other health workers.....	(B)	5,272	6,656	7,046	(B)	(B)	7,388	7,931
Teachers, elementary and secondary schools.....	5,393	5,589	6,732	7,157	5,651	6,063	7,077	7,629
Other salaried workers.....	5,559	6,131	7,164	7,687	6,075	6,643	7,879	8,519
Farmers and farm managers.....	1,555	1,572	2,630	3,043	1,878	2,004	3,098	3,547
Managers, officials, and proprietors, except farm.....	5,599	6,158	7,538	8,351	5,909	6,648	7,895	8,826
Self-employed.....	4,787	4,774	6,188	6,249	5,145	5,258	6,765	6,662
In retail trade.....	4,336	4,440	5,877	5,810	4,527	4,787	5,983	6,114
Other self-employed workers.....	5,338	5,140	6,632	6,616	5,772	5,950	7,417	7,196
Salaried.....	6,247	7,154	8,080	9,161	6,551	7,472	8,531	9,465
Clerical and kindred workers.....	4,356	4,806	5,511	5,671	4,864	5,291	6,280	6,542
Except secretaries, stenographers, and typists.....	4,351	4,801	5,512	5,675	4,856	5,285	6,292	6,544
Salesworkers.....	4,138	4,517	5,552	5,794	5,371	5,842	7,226	7,553
In retail trade.....	2,704	3,105	4,467	3,601	4,333	4,760	6,077	6,150
Other salesworkers.....	5,227	5,166	6,326	7,248	6,082	6,512	7,721	8,294
Craftsmen, foremen, and kindred workers.....	4,832	5,312	6,270	6,694	5,346	5,826	6,751	7,161
Foremen.....	6,088	6,554	7,694	7,930	6,245	6,796	7,081	8,104
Craftsmen.....	4,638	5,146	6,062	6,498	5,200	5,670	6,583	6,981
In construction.....	4,540	4,952	5,782	6,451	5,361	5,900	6,713	7,183
Other craftsmen, foremen, and kindred workers.....	4,660	5,187	6,135	6,511	5,167	5,634	6,562	6,987
Operatives and kindred workers.....	3,895	4,201	5,046	5,381	4,502	4,997	5,782	6,135
Manufacturing.....	4,065	4,461	5,553	5,646	4,586	5,054	5,987	6,219
Durable goods.....	4,178	4,713	5,681	5,924	4,760	5,212	6,137	6,449
Non-durable goods.....	3,831	4,060	5,239	5,072	4,305	4,554	5,628	5,723
Other operatives and kindred workers.....	3,660	3,837	4,201	4,978	4,428	4,915	5,543	6,008
Service workers, except private household.....	3,018	2,928	3,436	3,403	3,961	4,088	4,874	5,117
Waiters, cooks, and bartenders.....	2,951	2,513	3,715	2,912	3,570	4,010	4,880	4,491
Other service workers.....	3,029	3,044	3,396	3,511	4,042	4,100	4,868	5,210
Farm laborers and foremen.....	460	476	734	768	1,479	1,686	2,274	2,576
Laborers, except farm and mine.....	2,287	2,342	2,410	2,580	3,732	4,017	4,651	5,133

B Not computed; through 1960, base less than 200,000; for 1965, less than 150,000; and for 1966, less than 75,000.

Source: Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-60, Nos. 33, 37, 51, 53.

No. 336. PERCENT INCREASE IN AVERAGE SALARIES FOR SELECTED OCCUPATIONS IN PRIVATE INDUSTRY: 1961 TO 1967

[For 1967, covers establishments employing 50 workers or more in the finance, insurance, and real estate division; 100 workers or more in transportation; communications; electric, gas and sanitary services; wholesale trade; engineering and architectural services; and research, development, and testing laboratories operated on a commercial basis; and 250 workers or more in the manufacturing and retail trade divisions. For 1965, covers establishments employing 250 workers or more in all above industries. Based on sample and subject to sampling variability. Refers to United States excluding Alaska and Hawaii; for years prior to 1965 only standard metropolitan statistical areas as defined by the Bureau of the Budget were included. See text, p. 2.]

OCCUPATIONAL GROUP	1961 to 1967	1963 to 1964	1964 to 1965	1965 to 1966	1966 to 1967 <sup>1</sup>	OCCUPATIONAL GROUP	1961 to 1967	1963 to 1964	1964 to 1965	1965 to 1966	1966 to 1967 <sup>1</sup>
Accountants.....	24.1	2.8	3.5	3.8	5.8	Directors of personnel.....	25.4	4.6	3.5	3.6	4.7
Auditors.....	25.6	3.1	3.9	3.8	6.0	Chemists.....	28.0	3.3	3.9	4.8	5.5
Chief accountants.....	26.3	4.8	3.9	3.3	6.4	Engineers.....	24.3	2.9	3.2	3.7	5.4
Attorneys.....	25.6	3.3	4.2	4.0	4.0	Engineering technicians.....	(3)	3.6	2.3	2.8	4.6
Managers, office services.....	25.0	2.7	4.3	3.3	6.9	Drafting.....	(4)	2.6	(4)	1.5	4.6
Buyers.....	(2)	(2)	(2)	(2)	5.2	Clerical.....	21.6	2.9	2.4	3.0	6.1
Job analysts.....	28.3	3.5	4.3	5.4	4.2						

<sup>1</sup> The 1966-67 increase reflects changes over a 16-month period for clerical and drafting occupations, and a 15-month period for all others.

<sup>2</sup> Not surveyed before 1966.

<sup>3</sup> Not surveyed before 1962.

<sup>4</sup> Comparable data not available due to change in definition in 1965.

Source: Dept. of Labor, Bureau of Labor Statistics; *National Survey of Professional, Administrative, Technical, and Clerical Pay*, Bulletin No. 1585.

No. 337. INDEXES OF UNION WAGE RATES AND WEEKLY HOURS IN SELECTED TRADES: 1945 TO 1967

[1957-59=100. Prior to 1964, excludes Alaska. As of July 1. Indexes of rates reflect changes in minimum hourly wage scales; indexes of hours reflect changes in the negotiated straight-time weekly hours. Year-to-year changes in union scales are based on comparable quotations for each individual trade weighted by membership for current year. See *Historical Statistics, Colonial Times to 1957*, series D 642-653, for printing on 1948-49 base and other trades on 1947-49 base]

TRADE	1945	1950	1955	1960	1962	1963	1964	1965	1966	1967
<b>Building trades:</b>										
Rate	44.4	68.0	86.8	109.0	117.5	121.7	126.2	131.4	136.0	144.6
Hours	101.1	100.2	100.1	99.9	99.7	99.5	99.4	99.3	99.2	99.2
<b>Journeymen:</b>										
Rate	45.4	68.8	87.1	108.6	117.1	121.3	125.7	130.7	136.2	143.8
Hours	101.2	100.2	100.1	99.9	99.7	99.5	99.4	99.3	99.2	99.0
<b>Helpers and laborers:</b>										
Rate	38.1	63.9	84.5	110.6	120.1	124.4	129.7	135.8	141.4	149.5
Hours	100.7	99.9	100.0	100.0	100.0	99.9	99.9	99.9	99.9	99.8
<b>Printing trades:</b>										
Rate	44.2	75.1	91.0	106.3	112.9	116.2	119.3	122.7	126.7	131.9
Hours	106.2	101.3	100.7	99.6	99.3	99.2	99.1	98.9	98.7	98.5
<b>Book and job:</b>										
Rate	43.6	74.7	90.7	106.9	114.0	117.4	120.7	124.4	128.6	133.1
Hours	108.3	101.8	100.9	99.4	99.1	99.0	99.0	98.7	98.4	98.2
<b>Newspaper:</b>										
Rate	45.6	76.3	91.6	105.4	111.3	114.4	117.1	120.1	123.9	123.9
Hours	103.1	100.9	100.5	99.9	99.7	99.6	99.3	99.0	98.7	98.7
<b>Motortruck drivers and helpers:</b>										
Rate	41.5	64.9	86.0	109.3	117.8	123.1	127.7	132.2	136.8	144.9
Hours	112.9	105.9	101.9	98.9	98.5	98.4	98.4	98.4	98.3	98.2
<b>Local transit operators, rate</b>	43.6	69.2	87.6	108.4	117.1	121.5	126.4	131.7	137.3	146.6

Source: Dept. of Labor, Bureau of Labor Statistics; annual reports, *Union Wages and Hours*.

No. 338. PERCENT OF WORKERS EMPLOYED IN ESTABLISHMENTS HAVING FORMAL PROVISIONS FOR SELECTED SUPPLEMENTARY WAGE BENEFITS, 221 SMSA'S: 1967

[Surveys relate geographically to the 221 standard metropolitan statistical areas in the United States, as established by the Bureau of the Budget through March 1965. Data for a majority of the workers relate to late 1965 and early 1966; for the remainder, to late 1964 and early 1965. Data obtained from sample of establishments which employ 50 workers or more, except in 12 of the largest areas where the minimum size was 100 employees for manufacturing, public utilities, and retail trade; see source. Excludes data for government institutions, and construction and extractive industries. Excludes administrative, executive, and professional employees]

TYPE OF BENEFIT	Office workers	Plant workers	TYPE OF BENEFIT	Office workers	Plant workers
<b>PAID HOLIDAYS<sup>1</sup></b>					
No paid holidays-----	(2)	4	PAID VACATIONS <sup>3</sup> —Con.		
6 or more days-----	96	89	4 weeks or more:		
7 or more days-----	79	71	After 20 years of service-----	46	37
8 or more days-----	59	48	After 25 years of service-----	66	53
9 or more days-----	34	22	HEALTH, INSURANCE, AND PENSION PLANS		
10 or more days-----	17	5	Life insurance-----	96	93
11 or more days-----	11	3	Hospitalization-----	94	94
12 or more days-----	4	1	Surgical-----	93	93
<b>PAID VACATIONS<sup>3</sup></b>			Medical-----	84	78
2 weeks or more:			Catastrophe-----	76	45
After 1 year of service-----	78	24	Sickness and accident insurance-----	42	63
After 5 years of service-----	99	95	Sick leave (full pay and no waiting period)-----	58	17
3 weeks or more:			Sick leave (partial pay and/or waiting period)-----	9	12
After 5 years of service-----	16	12	Retirement pension-----	82	73
After 10 years of service-----	71	56			
After 15 years of service-----	80	80			

<sup>1</sup> Relates to holidays provided annually. Represents half-day and full-day holidays combined.

<sup>2</sup> Less than 0.5 percent.

<sup>3</sup> Such payments as percentages of annual earning or flat-sum payments were converted to an equivalent time basis.

Source: Dept. of Labor, Bureau of Labor Statistics; *Wages and Related Benefits: All Metropolitan Areas, United States and Regional Summaries, 1966-67* (Bulletin No. 1530-87, Part Two).

# Wage Benefits—Farm Employment

235

## No. 339. EMPLOYER EXPENDITURES FOR SELECTED SUPPLEMENTARY COMPENSATION PRACTICES, BY REGIONS: 1962

[Data based on a sample survey and cover production and related workers in manufacturing establishments having 1 or more paid employees. For composition of regions, see fig. I, p. xii]

SUPPLEMENTARY COMPEN- SATION PRACTICE	PERCENT OF GROSS PAYROLL					CENTS PER HOUR PAID				
	United States	North- east	South	North Central	West	United States	North- east	South	North Central	West
Paid leave	6.0	6.4	5.1	6.1	5.9	14.5	15.2	10.4	15.9	16.2
Vacation	3.6	3.7	3.2	3.7	3.8	8.6	8.7	6.5	9.7	9.0
Holiday	2.1	2.4	1.6	2.2	2.2	5.1	5.7	3.2	5.6	5.9
Sick	0.3	0.3	0.3	0.2	0.4	.6	.7	.5	.5	1.2
Other <sup>1</sup>	(Z)	0.1	0.1	(Z)	(Z)	.1	.1	.1	.1	.1
Premium payments	4.2	3.8	4.3	4.6	4.0	10.2	9.2	8.8	12.0	10.8
Overtime, weekend, and holiday work	3.3	3.0	3.5	3.6	3.1	8.1	7.2	7.2	9.4	8.5
Shift differentials	0.9	0.8	0.8	1.0	0.9	2.1	2.0	1.6	2.5	2.4
Yearend, Christmas, and other irregular bonuses	0.7	0.9	0.6	0.6	0.5	1.7	2.2	1.3	1.6	1.5
Legally required insurance programs	5.8	6.1	5.7	5.3	6.4	13.9	14.5	11.5	13.9	17.5
Social security	2.6	2.6	2.8	2.5	2.5	6.3	6.3	5.7	6.7	6.9
Unemployment compensation	2.1	2.4	1.9	1.9	2.3	5.1	5.8	3.9	4.8	6.3
Workmen's compensation	1.0	0.9	0.9	0.9	1.5	2.4	2.1	1.9	2.3	4.2
Other <sup>2</sup>	(Z)	0.1	(Z)	(Z)	(Z)	.1	.3	(Z)	(Z)	.1
Private welfare plans	5.4	5.3	4.8	6.1	4.7	13.1	12.7	9.9	15.8	12.8
Life, accident, and health insurance	2.7	2.6	2.2	3.1	2.5	6.5	6.3	4.5	8.0	6.8
Pension and retirement plans	2.4	2.3	2.3	2.6	2.0	5.7	5.6	4.7	6.7	5.4
Vacation and holiday funds	(Z)	0.1	(Z)	(Z)	(Z)	.1	.1	(Z)	.1	.1
Severance or dismissal pay and supplemental unemployment benefits	0.3	0.2	0.2	0.4	0.2	.6	.5	.4	.9	.4
Savings and thrift plans	0.1	0.1	0.1	(Z)	(Z)	.1	.1	.1	.1	.1

Z. Less than 0.05. <sup>1</sup> Includes military, jury, witness, voting, and personal leave.

<sup>2</sup> Principally State temporary disability insurance.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employer Expenditures for Selected Supplementary Compensation Practices for Production and Related Workers, and Composition of Payroll Hours, Manufacturing Industries, 1962* (Bulletin No. 1428).

## NO. 340. FARM EMPLOYMENT AND WAGE RATES: 1950 TO 1968

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 73, K 75, K 76 (for indexes on 1910-14 base), and K 77-80]

YEAR OR MONTH	EMPLOYMENT <sup>1</sup> (1,000)			WAGE RATES <sup>4</sup>				Index of farm wage rates (1957-59 = 100)	
	Total	Family <sup>2</sup>	Hired <sup>3</sup>	Per month		Per day			
				With board and room	With house	With board and room	Without board or room		
1950	9,926	7,597	2,329	\$99	\$121	\$4.45	\$4.50	74	
1955	8,381	6,345	2,036	123	154	5.40	5.30	89	
1960	7,057	5,172	1,885	149	192	6.50	6.60	107	
1962	6,700	4,873	1,827	155	200	6.70	6.90	112	
1963	6,518	4,738	1,780	159	206	6.90	7.10	116	
1964	6,110	4,506	1,604	162	212	7.10	7.30	119	
1965	5,610	4,128	1,482	170	223	7.40	7.60	126	
1966	5,214	3,854	1,360	184	243	8.00	8.20	136	
1967	4,903	3,650	1,253	199	262	8.60	9.00	148	
Apr. 1	4,703	3,654	1,049	192	253	7.80	8.70	146	
1968, Apr. 1	4,683	3,666	1,017	206	270	8.50	9.40	157	

<sup>1</sup> Arithmetic means of monthly estimates of persons employed during last full calendar week in each month.

<sup>2</sup> Includes farm operators doing 1 or more hours of farm work and unpaid family members doing 15 or more hours of farm work during survey week.

<sup>3</sup> Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

<sup>4</sup> Weighted averages of wage rates as reported quarterly by crop reporters.

Source: Dept. of Agriculture, Statistical Reporting Service; monthly report, *Farm Labor*.

**No. 341. FARM WAGE WORKERS—NUMBER AND PERCENT DISTRIBUTION, BY SELECTED CHARACTERISTICS AND BY EARNINGS AT FARM WAGE WORK: 1966**

[Persons 14 years old and over. Refers to civilian noninstitutional population. Based on sample and subject to sampling variability; see source for detailed explanation. For definition of median, see headnote, table 8]

CHARACTERISTIC	Workers (1,000)	AVERAGE DAILY EARNINGS (percent distribution)								Median earnings per day <sup>1</sup>
		Under \$3.00	\$3.00 to \$4.99	\$5.00 to \$6.99	\$7.00 to \$8.99	\$9.00 to \$10.99	\$11.00 to \$12.99	\$13.00 and over		
All workers	2,763	10	20	20	16	14	8	12	\$6.95	
COLOR										
White	2,031	8	14	20	17	17	9	15	7.95	
Nonwhite	733	14	39	22	11	7	2	5	4.85	
SEX										
Male	2,051	9	17	19	17	16	8	14	7.60	
Female	712	12	31	24	10	9	6	8	5.50	
AGE AND MIGRATORY STATUS										
14 to 19 years	1,151	15	24	22	18	10	4	7	5.95	
Migratory	130	10	7	18	24	19	10	12	8.25	
Nonmigratory	1,021	16	26	22	17	9	4	6	5.65	
20 years and over	1,611	6	18	19	14	17	10	16	8.00	
Migratory	221	4	2	17	14	17	18	28	10.45	
Nonmigratory	1,389	6	20	20	14	17	8	15	7.55	
DURATION OF FARM WAGE WORK										
Under 25 days	1,130	11	25	21	15	13	5	10	6.35	
25 to 74 days	717	10	21	23	17	11	8	10	6.65	
75 to 149 days	339	12	11	19	16	17	9	16	8.05	
150 to 249 days	211	4	18	18	13	19	10	18	8.50	
250 to 299 days	107	6	18	17	14	19	13	13	8.15	
300 days and over	260	8	15	15	18	15	9	20	8.30	
REGION <sup>2</sup>										
Northeast	216	17	12	12	13	21	5	20	8.40	
North Central	519	9	12	23	22	14	9	11	7.60	
South	1,292	10	33	28	12	10	3	4	5.50	
West	736	8	7	9	17	18	15	26	10.00	

<sup>1</sup> Rounded to the nearest 5 cents.

<sup>2</sup> For composition of regions, see fig. I, p. xii.

Source: Dept. of Agriculture, Economic Research Service; *The Hired Farm Working Force of 1966*.

**No. 342. FARM EMPLOYMENT, BY GEOGRAPHIC DIVISIONS: 1940 TO 1967**

[In thousands. Excludes Alaska and Hawaii. Annual average number of persons employed during last full calendar week of each month]

GEOGRAPHIC DIVISION <sup>1</sup>	1940	1945	1950	1955	1960	1964	1965	1966	1967
Total workers <sup>2</sup>	10,979	10,000	9,926	8,381	7,057	6,110	5,610	5,214	4,903
New England	235	225	219	188	137	116	108	104	87
Middle Atlantic	679	626	616	502	402	321	292	270	256
East North Central	1,604	1,471	1,568	1,424	1,204	1,044	952	888	823
West North Central	1,804	1,744	1,779	1,537	1,338	1,202	1,114	1,050	999
South Atlantic	2,110	1,880	1,812	1,509	1,238	1,057	975	853	806
East South Central	1,780	1,545	1,432	1,098	883	784	706	666	609
West South Central	1,662	1,397	1,407	1,146	940	782	707	663	660
Mountain	474	446	418	365	332	293	273	266	259
Pacific	631	666	675	612	583	511	483	456	404
Hired workers <sup>3</sup>	2,679	2,119	2,329	2,036	1,885	1,604	1,482	1,360	1,253
New England	75	65	71	69	46	38	34	34	31
Middle Atlantic	207	174	185	137	111	84	77	66	60
East North Central	310	214	237	206	182	152	132	117	108
West North Central	315	241	275	216	195	164	154	146	139
South Atlantic	488	358	417	395	381	343	326	279	258
East South Central	297	216	240	218	208	183	162	163	133
West South Central	504	375	423	362	339	278	251	214	202
Mountain	183	164	151	134	126	105	98	99	103
Pacific	291	312	330	301	297	257	248	242	219

<sup>1</sup> See table 334 for States comprising each division.

<sup>2</sup> Includes operators and unpaid family members.

<sup>3</sup> Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

Source: Dept. of Agriculture, Statistical Reporting Service. In annual report, *Agricultural Statistics*.

## No. 343. MONTHLY LABOR TURNOVER RATES IN MANUFACTURING INDUSTRIES: 1955 TO 1967

[**Rates per 100 employees.** Prior to 1960, excludes Alaska and Hawaii. Data refer to wage and salary workers. Beginning 1960, transfers between establishments of the same firm are included in total accessions and total separations; therefore, rates for these items are not strictly comparable with prior data. See *Historical Statistics, Colonial Times to 1957*, series D 779-784, for related but not comparable data]

TYPE AND YEAR	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions:</b>													
1955	4.5	3.8	3.7	4.2	4.2	4.5	5.3	4.5	5.8	5.5	5.0	4.0	2.9
1960	3.8	4.0	3.5	3.3	3.4	3.9	4.7	3.9	4.9	4.8	3.5	2.9	2.3
1965	4.3	3.8	3.5	4.0	3.8	4.1	5.6	4.5	5.4	5.5	4.5	3.9	3.1
1966	5.0	4.6	4.2	4.9	4.6	5.1	6.7	5.1	6.4	6.0	5.1	3.9	2.9
1967	4.4	4.3	3.6	3.9	3.9	4.6	5.9	4.6	5.4	5.3	4.7	3.7	2.8
<b>New hires:</b>													
1955	3.0	2.0	2.1	2.6	2.6	3.0	3.8	3.3	4.1	3.9	3.5	2.9	2.0
1960	2.2	2.2	2.2	2.0	2.0	2.3	3.0	2.4	2.9	2.8	2.1	1.5	1.0
1965	3.1	2.4	2.4	2.8	2.6	3.0	4.3	3.2	3.9	4.0	3.5	2.9	2.2
1966	3.8	3.2	3.1	3.7	3.6	4.1	5.6	3.9	4.8	4.7	4.1	3.1	2.1
1967	3.2	3.0	2.7	2.8	2.8	3.3	4.5	3.3	4.0	4.1	3.7	2.7	2.0
<b>Total separations:</b>													
1955	3.9	3.3	2.8	3.3	3.6	3.7	4.0	4.1	4.7	5.5	4.4	3.8	3.6
1960	4.3	3.6	3.5	4.0	4.2	3.9	4.0	4.4	4.8	5.3	4.7	4.5	4.8
1965	4.1	3.7	3.1	3.4	3.7	3.6	3.6	4.3	5.1	5.6	4.5	3.9	4.1
1966	4.6	4.0	3.6	4.1	4.3	4.3	4.4	5.3	5.8	6.6	4.8	4.3	4.2
1967	4.6	4.5	4.0	4.6	4.3	4.2	4.3	4.8	5.3	6.2	4.7	4.0	3.9
<b>Quits:</b>													
1955	1.9	1.2	1.2	1.5	1.8	1.7	1.8	2.0	2.7	3.5	2.2	1.8	1.3
1960	1.3	1.2	1.2	1.4	1.3	1.4	1.4	1.4	1.8	2.3	1.3	0.9	0.7
1965	1.9	1.4	1.3	1.5	1.7	1.7	1.7	1.8	2.6	3.5	2.2	1.7	1.4
1966	2.6	1.9	1.8	2.3	2.5	2.5	2.5	2.5	3.6	4.5	2.8	2.1	1.7
1967	2.3	2.1	1.9	2.1	2.2	2.2	2.3	2.1	3.2	4.0	2.4	1.9	1.5
<b>Layoffs:</b>													
1955	1.5	1.7	1.2	1.4	1.4	1.3	1.5	1.6	1.5	1.4	1.6	1.5	1.8
1960	2.4	1.8	1.7	2.2	2.2	1.9	2.0	2.4	2.4	2.4	2.8	3.1	3.6
1965	1.4	1.6	1.2	1.2	1.3	1.1	1.1	1.8	1.6	1.3	1.4	1.5	1.9
1966	1.2	1.3	1.0	1.0	1.0	0.9	1.0	2.0	1.1	1.0	1.1	1.3	1.8
1967	1.4	1.5	1.3	1.5	1.3	1.1	1.1	1.9	1.1	1.2	1.3	1.3	1.6

<sup>1</sup> Includes rehires.

<sup>2</sup> Includes discharges and military and miscellaneous separations.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings and Monthly Report on the Labor Force*.

## No. 344. WORKERS COMMUTING—DISTANCE, TRANSPORTATION, AND TRAVEL TIME TO WORK: 1963

[**Workers in millions.** As of October. Covers employed members of households who commute  $\frac{1}{4}$  mile or more to work and who report to a definite work location at the beginning of the work day. Based on a nationwide probability sample of households and subject to sampling variability]

ITEM	Workers	Percent	ITEM	Workers	Percent
<b>Total</b>	50	100	<b>Travel time to work:</b>		
Distance from home to work:			Under 15 minutes	13	25
$\frac{1}{4}$ to 1 mile	7	15	15 to 35 minutes	26	52
2 miles	6	13	36 minutes and over	9	18
3 miles	5	10	Time not reported	2	5
4 miles	4	7	<b>Distance from home to public transportation:</b>		
5 miles	4	7	Less than $\frac{1}{4}$ mile	18	35
6 to 10 miles	12	24	$\frac{1}{4}$ to $\frac{1}{2}$ mile	7	13
11 miles or more	12	24	Over $\frac{1}{4}$ but less than 1 mile	2	4
<b>Means of transportation:</b>					
Automobile, with others	13	26	1 mile or more	2	5
Automobile, driver alone	28	56	Public transportation not available or not reported	21	43
Public transportation <sup>1</sup>	7	14			
Walking or other	2	4			

<sup>1</sup> Includes buses or streetcars, subways, elevated trains or other rapid transit, and suburban or intercity commuter trains.

Source: Dept. of Commerce, Bureau of the Census; 1963 Census of Transportation, Vol. I, *Passenger Transportation Survey*.

**No. 345. INJURY-FREQUENCY RATES, 1960 TO 1965, AND SEVERITY MEASURES,  
1964 AND 1965, FOR SELECTED INDUSTRIES**

[Frequency rate is average number of disabling work injuries, and severity rate is average number of days disability, per 1 million employee-hours worked. Data are on basis of Standard Industrial Classification as revised in 1957. See also *Historical Statistics, Colonial Times to 1957*, series D 785, for injury-frequency rates for manufacturing on old basis]

INDUSTRY	INJURY-FREQUENCY RATES				SEVERITY MEASURE			
	1960	1963	1964	1965	Average days of disability per case		Severity rate	
					1964	1965	1964	1965
<b>Manufacturing</b>								
Ordnance and accessories	12.0	11.9	12.3	12.8	54	54	702	713
Food and kindred products	2.4	2.4	2.7	2.8	159	266	614	731
Tobacco manufactures	21.1	21.8	22.9	23.4	45	41	1,070	972
Textile-mill products	8.7	7.5	7.5	9.5	(N.A.)	51	(N.A.)	485
Apparel and related products	9.2	9.2	9.1	9.6	51	47	482	455
Lumber and wood products (exc. furniture)	38.0	36.7	36.0	36.0	82	78	3,355	3,131
Furniture and fixtures	18.8	17.8	18.6	19.9	41	41	765	842
Paper and allied products	12.3	12.4	12.5	12.6	64	66	861	916
Printing, publishing, and allied industries	9.5	9.5	9.9	10.0	43	45	455	445
Chemicals and allied products	7.4	7.5	7.2	7.5	75	79	599	679
<b>Petroleum refining and related industries</b>	<b>6.8</b>	<b>8.1</b>	<b>8.3</b>	<b>8.6</b>	<b>105</b>	<b>114</b>	<b>880</b>	<b>993</b>
Rubber products <sup>1</sup>	10.0	11.5	11.7	12.3	52	62	664	800
Leather and leather products	11.4	12.5	13.3	13.4	31	30	420	413
Stone, clay, and glass products	18.3	17.9	18.3	18.7	57	65	1,105	1,247
Primary metal industries	10.5	11.0	11.8	12.9	70	81	889	1,068
Fabricated metal products	15.4	15.9	16.4	18.1	52	49	884	897
Machinery (except electrical)	10.8	10.8	11.4	11.9	45	41	547	515
Electrical machinery, equip., and supplies	5.2	5.3	5.6	5.9	38	40	232	246
Transportation equipment	6.1	6.2	6.9	6.8	53	56	374	370
Instruments and related products	5.8	6.1	5.9	6.2	36	36	219	237
Miscellaneous manufacturing industries	12.7	12.7	13.5	13.3	37	41	513	545
<b>Mining:</b> <sup>2</sup>								
Coal mining and preparation	43.4	45.1	44.8	45.8	188	196	8,420	8,950
Peat	27.7	11.5	21.4	16.6	87	36	1,851	593
Asphalt and related bitumens (native)	41.2	42.4	42.0	30.9	398	270	16,701	8,335
Metal mining	32.4	32.1	31.9	29.8	152	158	4,883	4,703
Metal milling	9.2	9.5	9.3	9.8	115	81	1,090	793
Nonmetal mining	29.2	27.3	25.7	26.8	171	169	4,380	4,534
Nonmetal milling	20.9	19.5	22.2	21.0	70	94	1,550	1,986
Sand and gravel	20.3	20.1	19.7	19.1	164	168	3,287	3,214
Stone quarrying and milling	23.3	18.2	18.2	17.3	151	135	2,752	2,330
<b>Contract construction</b>	<b>31.5</b>	<b>28.6</b>	<b>29.5</b>	<b>28.3</b>	<b>83</b>	<b>92</b>	<b>2,434</b>	<b>2,585</b>
<b>Transportation and public utilities:</b>								
Local and interurban passenger transit	14.3	12.3	14.8	15.8	47	57	694	898
Motor freight transp. and warehousing	32.3	31.3	31.2	29.2	62	57	1,950	1,672
Communication	1.0	0.9	1.0	1.0	147	133	142	126
Electric, gas, and sanitary services	6.2	5.7	5.7	5.3	147	147	832	777
<b>Wholesale and retail trade</b>	<b>(N.A.)</b>	<b>12.2</b>	<b>11.8</b>	<b>11.8</b>	<b>41</b>	<b>42</b>	<b>488</b>	<b>491</b>
<b>Finance, insurance, and real estate:</b>								
Banking	2.4	2.3	2.4	2.2	(N.A.)	33	(N.A.)	72
Credit agencies other than banks	2.5	0.7	1.6	1.6	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Security and commodity brokers, and serv.	1.0	1.2	0.5	1.2	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Insurance carriers	2.4	2.2	2.2	2.3	81	72	179	162
Insurance agents, brokers, and services	(N.A.)	2.0	2.3	1.5	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Real estate	13.6	12.7	10.9	10.4	(N.A.)	(N.A.)	(N.A.)	(N.A.)
<b>Services:</b>								
Hotels and other lodging places	13.5	13.5	13.5	12.5	34	36	459	451
Personal services	7.9	8.4	8.9	9.3	52	39	462	362
Miscellaneous business services	10.5	7.2	7.5	7.5	83	90	630	671
Automobile repair, services, and garages	15.3	13.2	14.1	13.9	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Miscellaneous repair services	18.4	18.2	20.2	16.7	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Motion pictures	6.9	5.9	5.5	5.6	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Amusement and recreation, except motion pictures	13.6	14.4	14.4	13.2	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Medical and other health services	8.1	7.4	8.6	7.8	27	31	236	247
Educational services	8.5	7.4	7.5	8.3	50	39	377	323
Miscellaneous services	5.2	4.1	4.0	2.8	(N.A.)	(N.A.)	(N.A.)	(N.A.)
<b>State government:</b>								
Hospitals	16.3	17.7	20.0	21.0	37	26	744	555
Institutions of higher education	9.3	8.3	7.8	8.7	43	36	335	308
Federal Government <sup>3</sup>	8.4	7.9	7.7	7.3	67	73	516	531

NA. Not available. <sup>1</sup> Includes miscellaneous plastics products.

<sup>2</sup> Compiled by Dept. of the Interior, Bureau of Mines. Excludes experience of office workers.

<sup>3</sup> Compiled by Dept. of Labor, Bureau of Employees' Compensation.

Source: Dept. of Labor, Bureau of Labor Statistics. Periodically in *Monthly Labor Review*, and annual report, *Injury Rates by Industry*.

# Union Membership

239

## No. 346. NATIONAL AND INTERNATIONAL UNIONS—MEMBERSHIP: 1940 TO 1966

[Estimates based on average number of dues-paying members of unions with headquarters in the United States. Certain unions did not report as members persons not required to pay dues, such as apprentices and workers who were retired, unemployed, in the Armed Forces, or involved in work stoppages. Excludes membership in noninterstate independent or unaffiliated unions. See also *Historical Statistics, Colonial Times to 1957*, series D 741 and 745.]

ITEM	1940	1950	1955	1960	1963	1964	1965	1966
Unions affiliated with AFL-CIO.....	147	137	139	134	130	129	128	129
Union membership, total.....1,000.....	8,944	15,000	17,749	18,117	17,586	17,976	18,519	19,181
Canadian members of U.S. unions.....1,000.....	227	733	947	1,068	1,062	1,135	1,220	1,241
Excluding Canadian members.....1,000.....	8,717	14,267	16,802	17,049	16,524	16,841	17,299	17,940
Membership as percent of—								
Total labor force.....	15.5	22.0	24.4	28.3	21.8	21.9	22.4	22.7
Employment in nonagricultural estab- lishments.....	26.9	31.5	33.2	31.5	29.2	28.9	28.4	28.0
AFL-CIO.....1,000.....	7,872	12,143	16,062	15,072	14,818	15,150	15,604	16,198
Independent or unaffiliated unions.....1,000.....	1,072	2,600	1,688	3,045	2,768	2,825	2,915	2,983

Source: Dept. of Labor, Bureau of Labor Statistics; *Handbook of Labor Statistics, Directory of National and International Labor Unions in the United States*, and unpublished data.

## No. 347. LABOR UNION MEMBERSHIP—TOTAL AND PERCENT OF NONAGRICULTURAL EMPLOYMENT, STATES: 1964 AND 1966

[Based on reports and estimates for national and international unions directly affiliated with the AFL-CIO, and members in single firm and local unaffiliated unions]

STATE	Total (1,000)		Percent of nonagricultural employment		STATE	Total (1,000)		Percent of nonagricultural employment	
	1964	1966	1964	1966		1964	1966	1964	1966
United States.....	17,188	18,269	29.5	28.8	Montana.....	62	63	35.2	34.0
Alabama <sup>1</sup> .....	158	178	18.7	19.2	Nebraska <sup>1</sup> .....	78	81	19.2	18.8
Alaska.....	21	22	32.1	30.2	Nevada <sup>1</sup> .....	49	48	32.8	29.8
Arizona <sup>1</sup> .....	71	77	18.5	17.9	New Hampshire.....	42	44	20.1	19.0
Arkansas <sup>1</sup> .....	73	83	17.0	17.0	New Jersey.....	701	737	92.3	31.3
California.....	1,857	1,952	33.3	32.0	New Mexico.....	37	43	14.5	15.8
Colorado.....	128	138	22.3	22.2	New York.....	2,453	2,506	38.5	37.3
Connecticut.....	267	286	27.0	26.1	North Carolina <sup>1</sup> .....	100	104	7.4	6.9
Delaware.....	41	42	24.0	21.8	North Dakota <sup>1</sup> .....	21	21	14.8	14.2
Florida <sup>1</sup> .....	214	234	14.0	13.6	Ohio.....	1,180	1,254	36.7	35.5
Georgia <sup>1</sup> .....	166	188	14.0	14.2	Oklahoma.....	94	102	15.1	15.0
Hawaii.....	49	62	23.6	26.6	Oregon.....	196	208	34.2	32.7
Idaho.....	32	34	19.0	18.4	Pennsylvania.....	1,462	1,533	38.7	37.7
Illinois.....	1,419	1,466	38.4	36.0	Rhode Island.....	86	88	28.3	26.8
Indiana.....	563	631	36.4	36.5	South Carolina <sup>1</sup> .....	48	49	7.4	6.7
Iowa <sup>1</sup> .....	163	173	22.6	21.4	South Dakota <sup>1</sup> .....	15	16	10.0	10.4
Kansas <sup>1</sup> .....	109	110	18.6	17.5	Tennessee <sup>1</sup> .....	201	225	19.2	18.9
Kentucky.....	195	217	27.0	27.1	Texas <sup>1</sup> .....	394	423	14.1	13.7
Louisiana.....	160	176	18.7	18.3	Utah <sup>1</sup> .....	53	53	18.0	16.6
Maine.....	59	61	20.8	19.9	Vermont.....	21	22	18.7	17.1
Maryland <sup>2</sup> .....	369	404	22.9	22.8	Virginia <sup>1</sup> .....	184	199	15.8	15.5
Massachusetts.....	549	549	28.0	26.2	Washington.....	376	398	44.0	40.3
Michigan.....	1,074	1,135	42.7	40.5	West Virginia.....	206	217	44.7	44.1
Minnesota.....	350	374	34.0	32.8	Wisconsin.....	424	448	33.4	32.1
Mississippi <sup>1</sup> .....	62	64	13.5	12.3	Wyoming <sup>1</sup> .....	19	20	19.4	20.4
Missouri.....	537	550	37.9	35.6	Membership not classified.....	-	160	(X)	(X)

<sup>1</sup> Represents zero. <sup>2</sup> Not applicable.

<sup>1</sup> State has a right-to-work law.

<sup>2</sup> Includes District of Columbia.

Source: Dept. of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1967* (Bulletin No. 1596).

No. 348. NATIONAL AND INTERNATIONAL UNIONS—NUMBER AND MEMBERS, BY INDUSTRY AND AFFILIATION: 1966

[See headnote, table 346. "N.e.c." means not elsewhere classified]

INDUSTRY GROUP	ALL UNIONS			UNION AFFILIATION					
	Number <sup>1</sup>	Membership <sup>2</sup> (1,000)	Percent	AFL-CIO			Unaffiliated		
				Number <sup>1</sup>	Membership <sup>2</sup> (1,000)	Percent	Number <sup>1</sup>	Membership <sup>2</sup> (1,000)	Percent
All unions.....	190	19,125	100.0	129	16,142	100.0	61	2,983	100.0
Manufacturing.....	103	8,769	45.8	77	7,773	48.2	26	996	33.4
Food, beverages, and tobacco.....	26	1,084	5.7	17	601	3.7	9	483	16.2
Clothing, textiles, and leather products.....	21	1,194	6.2	14	1,176	7.3	7	18	0.6
Furniture, lumber, wood products, and paper.....	22	829	4.3	16	770	4.8	6	59	2.0
Printing and publishing.....	15	357	1.9	11	348	2.2	4	9	0.3
Petroleum, chemicals, and rubber.....	20	570	3.0	14	434	2.7	6	136	4.6
Stone, clay, and glass.....	20	295	1.5	18	283	1.8	2	12	0.4
Metals, machinery and equipment, except transportation equipment.....	36	2,874	15.0	23	2,636	16.3	13	238	8.0
Transportation equipment.....	19	1,297	6.8	11	1,278	7.9	8	19	0.6
Manufacturing, n.e.c.....	36	269	1.4	25	247	1.5	11	22	0.7
Nonmanufacturing.....	101	8,640	45.2	76	7,059	43.7	25	1,581	53.0
Mining and quarrying.....	13	324	1.7	8	115	0.7	5	209	7.0
Contract construction.....	26	2,463	12.9	19	2,380	14.7	7	83	2.8
Transportation.....	43	2,535	13.3	34	1,598	9.9	9	937	31.5
Telephone and telegraph.....	10	505	2.6	7	430	2.7	3	75	2.5
Electric and gas utilities.....	14	324	1.7	11	284	1.8	3	40	1.3
Trade.....	20	1,363	7.1	15	1,182	7.3	5	171	5.7
Finance and insurance.....	6	62	0.3	4	58	0.4	2	4	0.1
Service industries.....	28	1,002	5.2	22	968	6.0	6	34	1.1
Agriculture and fishing.....	6	35	0.2	3	12	0.1	3	23	0.8
Nonmanufacturing, n.e.c.....	9	37	0.2	6	31	0.2	3	5	0.2
Government.....	58	1,717	9.0	32	1,311	8.1	26	406	13.6
Federal.....	57	1,073	5.6	31	682	4.2	26	391	13.1
State and local.....	17	644	3.4	14	629	3.9	3	15	0.5

<sup>1</sup> In cases where more than one industry group was applicable, the union was tabulated in each; therefore, detail will not add to total.

<sup>2</sup> Number of members computed by applying reported percentage figures to total membership, including members outside the United States.

Source: Dept. of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1967* (Bulletin No. 1596).

No. 349. NATIONAL AND INTERNATIONAL UNIONS REPORTING 100,000 MEMBERS OR MORE: 1964 AND 1966

In thousands. Data are for unions with headquarters in the United States. All unions not identified as independent (Ind.) are affiliated with the AFL-CIO]

UNION	MEMBERS		UNION	MEMBERS		UNION	MEMBERS	
	1964	1966		1964	1966		1964	1966
Teamsters (Ind.).....	1,507	1,651	Plumbers.....	256	285	Oil, chemical.....	162	165
Automobile workers.....	1,168	1,403	State, county.....	235	281	Ironworkers.....	143	162
Steelworkers.....	965	1,068	Railway and steamship clerks.....	270	270	Bricklayers.....	135	149
Electrical (IBEW).....	806	875	Musicians.....	275	252	Papermakers.....	133	144
Machinists.....	808	836	Mine workers, District 50 (Ind.).....	210	232	Postal clerks.....	139	143
Carpenters.....	760	800	Painters.....	199	201	Maintenance of way.....	121	141
Retail clerks.....	428	500	Government (A.F.G.E.).....	139	200	Boilermakers.....	125	140
Laborers'.....	432	475	Letter carriers.....	168	190	Packinghouse.....	145	135
Garment, ladies'.....	442	455	Railroad trainmen.....	185	185	Transport workers.....	135	135
Hotel and restaurant.....	445	450	Textile workers.....	177	182	Railway carmen.....	121	126
Clothing workers.....	377	382	Textile workers.....	177	182	Teachers.....	100	125
Meatcutters.....	341	353	Pulp, sulphite.....	176	171	Firefighters.....	115	115
Building service.....	320	349	Rubber.....	167	171	Printing pressmen.....	116	114
Engineers, operating.....	311	330	Sheet metal workers.....	165	170	Typographical union.....	113	107
Communications workers.....	294	321	Electrical (UE) (Ind.).....	165	167	Transit union.....	133	103
Electrical (IUE).....	271	320						

Source: Dept. of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1967* (Bulletin No. 1596).

## No. 350. LABOR UNIONS—FINANCIAL DATA, BY TYPE OF UNION: 1963 AND 1966

[Money figures in millions of dollars. For fiscal years ending during calendar year. Data from annual financial reports of labor organizations filed with Department of Labor under provisions of Labor-Management Reporting and Disclosure Act of 1959 which covers substantially all labor unions in the United States, except those not engaged in an industry affecting commerce, those composed entirely of public employees, and those which are State or local central bodies. Classification by type is based mainly on union's self-classification in reports filed with Department of Labor]

ITEM	1963			1966		
	National unions	Intermediate bodies	Local unions	National unions	Intermediate bodies	Local unions
Number of unions.....	208	2,855	<sup>1</sup> 48,000	207	2,729	<sup>1</sup> 48,000
Assets.....	854	135	894	995	147	1,015
Cash on hand and in banks.....	180	43	384	200	49	472
Loans receivable.....	52	9	23	44	7	28
U.S. Treasury Securities.....	213	29	156	235	32	163
Other investment assets.....	202	28	103	277	31	117
Other assets.....	206	29	227	238	28	235
Liabilities.....	45	17	64	47	21	75
Accounts payable.....	6	2	14	8	3	17
Loans payable.....	8	7	13	8	8	16
Mortgages payable.....	10	1	15	11	1	19
Other liabilities.....	21	8	23	21	10	23
Receipts <sup>2</sup> .....	635	164	1,146	728	190	1,298
Dues or per capita tax.....	351	101	865	409	116	956
Fees, fines, assessments, and work permits.....	44	14	124	50	16	155
Other receipts.....	240	49	157	269	58	188
Disbursements <sup>2</sup> .....	608	158	1,114	695	184	1,250
Per capita tax and assessments.....	62	17	402	80	20	444
Payments to officers and employees.....	133	49	301	148	54	351
Office and administrative expenses.....	24	13	117	36	15	137
Loans made.....	4	1	6	6	2	6
Payments for benefits.....	151	6	74	137	6	78
Other disbursements.....	234	73	215	288	85	234

<sup>1</sup> Financial data adjusted to represent a constant universe of 48,000 local unions because financial detail could not be tabulated for all. Actual number of reporting local unions: 49,290 in 1963 and 49,336 in 1966.

<sup>2</sup> Receipts and disbursements for national, intermediate, and local unions should not be added; such a total would contain duplication due to transfer of certain monies from one type of union to another, with each type reporting the transaction.

Source: Dept. of Labor, Office of Labor-Management and Welfare-Pension Reports; unpublished data.

## No. 351. LABOR UNIONS—NUMBER AND ASSETS, BY SIZE OF RECEIPTS: 1966

[Assets in thousands of dollars. See headnote, table 350]

RECEIPT SIZE	NUMBER OF UNIONS			ASSETS				
	Total	National unions	Intermediate bodies	Local unions	Total	National unions	Intermediate bodies	Local unions
Total.....	50,936	207	2,729	<sup>1</sup> 48,000	2,156,686	994,587	147,121	1,014,976
Under \$5,000.....	23,673	12	1,095	22,566	33,971	80	1,669	32,222
\$5,000 to \$9,999.....	8,084	9	281	7,744	34,221	83	1,206	32,932
\$10,000 to \$19,999.....	6,611	10	358	6,243	66,111	148	2,953	53,010
\$20,000 to \$29,999.....	3,343	4	204	3,075	50,723	59	3,226	47,458
\$30,000 to \$49,999.....	2,771	8	231	2,532	73,690	192	6,085	67,413
\$50,000 to \$99,999.....	3,074	16	235	2,823	87,564	1,270	6,578	79,716
\$100,000 to \$499,999.....	2,977	41	221	2,715	481,736	8,797	37,558	435,391
\$500,000 to \$999,999.....	262	21	24	217	174,290	17,053	28,708	128,529
\$1,000,000 to \$2,999,999.....	135	39	17	70	223,772	68,006	39,456	116,330
\$3,000,000 and over.....	56	47	3	6	940,608	898,908	10,704	21,995

<sup>1</sup> Financial data adjusted to represent a constant universe of 48,000 local unions because financial detail could not be tabulated for all. Actual number of reporting local unions: 49,336.

Source: Dept. of Labor, Office of Labor-Management and Welfare-Pension Reports; unpublished data.

## No. 352. WORK STOPPAGES: 1940 TO 1967

[Prior to 1960, excludes Alaska and Hawaii. Excludes work stoppages involving fewer than 6 workers or lasting less than 1 day. Information obtained directly from companies and unions involved as well as from various Government labor boards, conciliation services, and other neutral parties. See also *Historical Statistics, Colonial Times to 1957*, series D 764-769 and D 774]

YEAR	WORK STOPPAGES BEGINNING IN YEAR		WORKERS INVOLVED		MAN-DAYS IDLE DURING YEAR		
	Number	Average duration (calendar days)	Number (1,000)	Percent of total employed <sup>1</sup>	Number (1,000)	Percent of estimated working time <sup>2</sup>	Per worker involved
			Number	Number	Number	Number	Number
1940	2,508	20.9	577	2.3	6,700	0.10	11.6
1945	4,750	9.9	3,470	12.2	38,000	0.47	11.0
1950	4,843	19.2	2,410	6.9	38,800	0.44	16.1
1955	4,320	18.5	2,650	6.2	28,200	0.26	10.7
1960	3,333	23.4	1,320	3.0	19,100	0.17	14.5
1961	3,367	23.7	1,450	3.2	16,300	0.14	11.2
1962	3,614	24.6	1,230	2.7	18,600	0.16	15.0
1963	3,362	23.0	941	2.0	16,100	0.13	17.1
1964	3,655	22.9	1,640	3.4	22,900	0.18	14.0
1965	3,963	25.0	1,550	3.1	23,300	0.18	15.1
1966	4,405	22.2	1,960	3.7	25,400	0.19	12.9
1967	4,595	22.8	2,870	5.3	42,100	0.30	14.7

<sup>1</sup> Workers counted more than once if involved in more than 1 stoppage during year.

<sup>2</sup> Total employed workers for 1940-1950 refers to all workers except those in occupations and professions in which there is little if any union organization or in which stoppages rarely if ever occur. In 1951, concept was changed to coincide with the Bureau of Labor Statistics figures for nonagricultural employment, excluding Government but including workers in all occupational groups. Tests show that percentage of total idleness computed on basis of these new figures usually differs by less than one-tenth of a point, while percentage of workers idle differs by about 0.5 or 0.6 of a point.

<sup>3</sup> Estimated working time computed by multiplying average number of employed workers (see footnote 2) by number of days worked by most employees.

Source: Dept. of Labor, Bureau of Labor Statistics; June or July issues of *Monthly Labor Review*, and annual bulletin, *Analysis of Work Stoppages*.

## No. 353. WORK STOPPAGES—MAJOR ISSUES AND DURATION: 1965 TO 1967

[Includes Alaska and Hawaii. See headnote, table 352. Issues data based on stoppages beginning in year; duration data on stoppages ending in year. See *Historical Statistics, Colonial Times to 1957*, series D 770-778, for related but not comparable data]

MAJOR ISSUES AND DURATION	WORK STOPPAGES			WORKERS INVOLVED <sup>1</sup> (1,000)			MAN-DAYS IDLE DURING YEAR (1,000)		
	1965	1966	1967	1965	1966	1967	1965	1966	1967
<b>MAJOR ISSUES</b>									
<b>All issues</b>									
General wage changes	3,963	4,405	4,595	1,550	1,960	2,870	23,300	25,400	42,100
Supplementary benefits	1,597	1,913	2,116	659	937	1,850	12,000	15,100	30,300
Wage adjustments	114	71	62	50	36	16	711	802	238
Hours of work	198	272	248	98	139	99	594	1,910	830
Other contractual matters	14	5	7	15	2	2	510	93	5
Union organization and security	60	38	47	19	10	41	251	171	321
Job security	594	597	586	154	130	114	2,980	3,160	6,450
Plant administration	203	180	232	145	201	105	3,630	1,500	1,150
Other working conditions	589	683	701	287	362	488	1,890	1,362	1,660
Interunion or intraunion matters	67	96	104	31	61	51	298	362	281
Not reported	475	516	470	81	80	102	438	446	892
<b>DURATION</b>									
<b>All stoppages</b>									
1 day	3,972	4,396	4,583	1,600	1,920	2,860	23,800	24,700	38,400
2 and 3 days	447	525	579	179	201	254	179	201	254
4 days to less than 1 week	565	693	659	158	244	746	328	487	1,240
1 week to less than 1/2 month	558	671	651	196	347	223	702	1,070	726
1/2 to less than 1 month	822	936	953	285	368	461	1,950	2,400	2,710
1 to less than 2 months	642	647	715	383	323	268	5,080	4,240	3,680
2 to less than 3 months	476	491	570	200	301	522	5,140	7,660	9,600
3 months or more	241	223	224	170	95	262	6,100	3,920	11,000

<sup>1</sup> Workers counted more than once if involved in more than 1 stoppage during year.

Source: Dept. of Labor, Bureau of Labor Statistics; June or July issues of *Monthly Labor Review*, and annual bulletin, *Analysis of Work Stoppages*.

## Work Stoppages

No. 354. WORK STOPPAGES, BY INDUSTRY GROUPS: 1950 TO 1967

Prior to 1960, excludes Alaska and Hawaii. See headnote, table 352. Work stoppages affecting more than 1 industry are counted as separate stoppages in each industry affected, and workers involved and man-days idle are allocated among the appropriate industries.

INDUSTRY GROUP	WORK STOPPAGES BEGINNING IN—										WORKERS INVOLVED <sup>1</sup> (1,000)							MAN-DAYS IDLE DURING YEAR (1,000)						
	1950		1955		1960		1965		1966		1967		1950		1955		1960		1965		1966		1967	
All industries	4,843	4,320	3,333	3,963	4,405	4,595	2,410	2,650	1,320	1,550	1,960	2,870	38,800	28,200	19,100	23,300	25,400	25,400	25,400	25,400	25,400	25,400	25,400	42,100
Manufacturing	2,705	2,420	1,598	2,080	2,295	2,328	1,450	2,000	707	913	922	1,350	22,900	18,800	11,200	14,300	13,700	13,700	13,700	13,700	13,700	13,700	27,800	
Ordnance and accessories	2	13	3	12	13	15	11	10	10	10	9	19	6	140	136	121	121	63	63	63	63	63	63	224
Rubber and related products	185	169	184	227	187	227	57	40	66	67	47	64	691	974	661	928	528	528	528	528	528	528	528	770
Tobacco manufactures	5	3	2	—	5	3	(Z)	2	—	7	33	1	11	—	—	—	—	—	—	—	—	—	—	85
Textile mill products	147	96	30	44	56	54	48	5	21	26	16	686	1,400	34	174	195	195	195	195	195	195	195	195	
Apparel and other finished products, etc.	187	139	87	100	96	18	15	12	10	12	21	228	136	134	199	263	263	263	263	263	263	263	263	
Lumber and wood products (exc. furniture)	119	81	39	46	48	60	24	12	5	13	10	700	227	103	204	253	253	253	253	253	253	253	253	
Furniture and fixtures	106	121	81	69	81	76	16	26	13	10	17	16	315	287	183	194	199	199	199	199	199	199	199	
Paper and allied products	76	67	52	91	92	109	19	14	9	39	26	37	360	197	136	931	336	336	336	336	336	336	336	
Printing, publishing, and allied industries	54	29	38	33	60	58	10	8	5	26	20	18	240	176	780	621	286	286	286	286	286	286	286	
Chemicals and allied products	96	105	91	102	161	124	39	40	22	28	45	37	796	634	314	737	727	727	727	727	727	727	727	
Petroleum refining and related industries	22	18	12	14	23	16	3	2	1	1	10	792	51	80	33	14	14	14	14	14	14	14	14	
Rubber and mice, Plastics products	136	105	53	93	83	94	136	124	30	55	27	101	385	490	261	443	433	433	433	433	433	433	433	
Leather and leather products	84	50	32	36	32	30	25	40	6	20	8	12	157	562	64	312	99	99	99	99	99	99	99	
Stone, clay, and glass products	132	110	98	139	142	157	45	33	18	71	32	30	652	495	228	836	594	594	594	594	594	594	594	
Primary metal industries	309	279	168	206	219	215	142	535	94	88	99	118	1,180	1,570	1,880	1,380	1,640	4,070	4,070	4,070	4,070	4,070	4,070	
Purchased metal products (exc. ordnance, machinery, and transportation equip.)	278	282	195	269	277	274	86	131	44	87	76	107	960	1,590	579	1,430	1,290	1,290	1,290	1,290	1,290	1,290	1,290	
Machinery (except electrical) equipment and supplies	317	306	144	266	301	260	224	230	69	113	136	177	4,410	3,800	1,240	1,870	2,440	2,440	2,440	2,440	2,440	2,440	2,440	
Transportation equipment	168	147	102	137	188	207	132	202	97	52	168	191	1,420	3,360	1,260	795	2,410	2,410	2,410	2,410	2,410	2,410	2,410	
Professional, scientific, and controlling instruments; photographic and optical goods; watches and clocks	171	200	122	140	162	165	368	440	189	196	160	347	8,540	1,910	3,560	2,630	1,330	5,530	5,530	5,530	5,530	5,530	5,530	5,530
Nonmanufacturing	2,138	1,913	1,740	1,886	2,110	2,267	959	646	610	633	1,040	1,630	15,900	9,400	7,900	9,020	11,700	14,300	14,300	14,300	14,300	14,300	14,300	14,300
Agriculture, forestry, and fisheries	12	11	81	21	20	18	21	21	3	8	5	7	8	8	237	191	74	164	164	164	164	164	164	164
Mining	508	343	154	154	188	194	254	196	114	49	72	96	102	9,700	1,080	700	431	794	794	794	794	794	794	794
Contract construction	611	573	773	943	977	867	237	204	269	301	455	305	2,460	1,810	4,470	4,630	6,140	6,140	6,140	6,140	6,140	6,140	6,140	
Transportation, communication	386	275	266	246	345	405	263	200	186	312	866	2,380	4,880	1,750	3,000	3,450	3,450	3,450	3,450	3,450	3,450	3,450	3,450	
Wholesale and retail trade	381	409	290	336	431	70	52	33	43	42	87	927	1,080	451	570	570	570	570	570	570	570	570	570	
Finance, insurance, and real estate	31	8	6	16	14	19	13	1	6	1	2	11	15	161	488	7	7	7	7	7	7	7		
Services—personal, business, and other	182	121	138	126	159	154	14	18	16	18	16	21	15	161	488	304	177	368	368	368	368	368	368	
Government	28	17	36	42	42	142	181	1	1	1	29	105	132	33	7	68	68	68	68	68	68	68	68	

Source: Dept. of Labor, Bureau of Labor Statistics; *Monthly Labor Review*, May 1951 and 1956, and thereafter, June or July issues, and annual bulletin, *Analysis of Work Stoppages*.

<sup>1</sup> Represents zero.

Z Less than 500.

<sup>1</sup> Workers counted more than once if involved in more than 1 stoppage during year.

## Labor Force, Employment, and Earnings

## No. 355. WORK STOPPAGES, BY STATES: 1965 TO 1967

[See headnote, table 352. Work stoppages affecting more than 1 State are counted as separate stoppages in each State affected, and workers involved and man-days idle are allocated among the appropriate States.]

STATE	WORK STOPPAGES BEGINNING IN—			WORKERS INVOLVED <sup>1</sup> (1,000)			MAN-DAYS IDLE DURING YEAR					
							Number (1,000)			Percent of estimated work- ing time <sup>2</sup>		
	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967
United States.....	3,963	4,405	4,595	1,550	1,960	2,870	23,300	25,400	42,100	0.18	0.19	0.30
New England:												
Maine.....	17	19	21	4	3	6	41	47	46	0.07	0.07	0.07
New Hampshire.....	16	19	24	5	2	5	31	15	76	0.06	0.03	0.14
Vermont.....	9	9	11	1	4	2	15	102	13	0.06	0.37	0.04
Massachusetts.....	157	162	157	51	67	44	533	1,120	527	0.12	0.24	0.11
Rhode Island.....	26	33	38	8	7	10	131	138	182	0.19	0.19	0.25
Connecticut.....	68	67	81	38	20	69	496	251	1,480	0.21	0.10	0.58
Middle Atlantic:												
New York.....	397	470	484	186	236	288	2,860	3,120	3,460	0.20	0.21	0.24
New Jersey.....	211	211	214	46	62	78	505	776	1,400	0.16	0.15	0.27
Pennsylvania.....	404	474	480	132	171	243	1,640	1,710	2,460	0.19	0.19	0.27
East North Central:												
Ohio.....	369	431	536	97	184	345	1,460	2,190	6,020	0.20	0.28	0.76
Indiana.....	159	172	166	69	68	141	997	701	2,100	0.28	0.19	0.55
Illinois.....	248	278	289	102	184	239	1,370	1,940	2,980	0.16	0.22	0.32
Michigan.....	229	275	283	82	143	284	1,560	1,820	5,180	0.27	0.30	0.85
Wisconsin.....	86	102	109	37	42	54	456	707	937	0.16	0.24	0.31
West North Central:												
Minnesota.....	53	58	71	14	37	51	134	453	704	0.06	0.19	0.28
Iowa.....	71	96	88	12	19	63	144	184	861	0.09	0.11	0.50
Missouri.....	120	117	155	47	61	90	575	1,090	973	0.18	0.33	0.20
North Dakota.....	15	8	6	1	(Z)	4	9	3	7	0.03	0.01	0.02
South Dakota.....	7	8	4	(Z)	1	1	2	5	2	0.01	0.02	0.01
Nebraska.....	21	23	17	8	11	14	187	68	84	0.23	0.08	0.00
Kansas.....	30	40	28	19	9	20	131	92	113	0.11	0.07	0.00
South Atlantic:												
Delaware.....	16	20	25	5	4	13	47	25	60	0.12	0.06	0.14
Maryland.....	44	41	64	15	13	35	349	130	285	0.18	0.06	0.12
District of Columbia.....	7	12	15	1	7	6	17	104	27	0.02	0.13	0.03
Virginia.....	32	52	84	8	21	51	189	308	382	0.07	0.12	0.14
West Virginia.....	102	139	151	29	53	46	224	589	505	0.22	0.57	0.48
North Carolina.....	25	36	45	4	9	23	84	58	132	0.03	0.02	0.04
South Carolina.....	15	15	22	4	4	11	56	22	69	0.04	0.01	0.04
Georgia.....	61	62	63	22	27	32	385	658	280	0.15	0.24	0.10
Florida.....	121	115	108	40	63	36	727	939	313	0.22	0.26	0.08
East South Central:												
Kentucky.....	99	124	104	30	92	51	295	855	528	0.19	0.51	0.31
Tennessee.....	79	94	96	30	35	60	821	417	895	0.35	0.17	0.35
Alabama.....	70	68	84	32	31	34	328	487	625	0.18	0.26	0.33
Mississippi.....	35	35	20	18	14	7	315	77	161	0.33	0.07	0.14
West South Central:												
Arkansas.....	31	32	25	5	9	9	112	170	125	0.12	0.17	0.12
Louisiana.....	53	61	68	24	27	45	719	317	1,030	0.39	0.16	0.50
Oklahoma.....	44	23	40	8	7	15	99	53	151	0.08	0.04	0.11
Texas.....	110	143	146	42	58	64	661	884	833	0.11	0.14	0.12
Mountain:												
Montana.....	18	15	28	4	1	26	19	14	885	0.06	0.04	2.52
Idaho.....	23	24	18	4	10	6	21	114	64	0.06	0.31	0.18
Wyoming.....	9	8	9	(Z)	5	4	6	47	11	0.03	0.26	0.06
Colorado.....	33	33	19	6	14	8	52	237	43	0.05	0.20	0.03
New Mexico.....	21	15	20	6	2	6	45	48	169	0.09	0.10	0.35
Arizona.....	22	23	15	22	6	16	614	52	1,320	0.73	0.06	1.53
Utah.....	17	27	19	6	13	16	73	97	835	0.13	0.17	1.44
Nevada.....	36	24	19	12	4	6	268	121	152	0.83	0.36	0.45
Pacific:												
Washington.....	52	64	80	42	44	26	676	659	366	0.38	0.33	0.17
Oregon.....	39	50	42	12	14	14	145	168	108	0.12	0.13	0.08
California.....	341	274	300	150	84	146	2,340	1,070	2,070	0.20	0.00	0.16
Alaska.....	10	10	12	1	1	2	15	13	14	0.14	0.12	0.13
Hawaii.....	24	28	40	8	5	11	45	44	87	0.11	0.10	0.20

Z. Less than 500.

<sup>1</sup> See footnote 1, table 352. <sup>2</sup> See footnote 3, table 352.

Source: Dept. of Labor, Bureau of Labor Statistics; annual bulletin, *Analysis of Work Stoppages*; release, *Work Stoppages by State*; and *Monthly Labor Review*.